Construction News

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Jan. 22	Hinsdale, Ill.	Dec. 21
Jan. 22	St. Paul, Minn.	Jan. 18
Jan. 23	Morris, Okla.	Jan. 18
Jan. 25	Buffalo, N. Y. Adv. Jan. 11 and 18.	Jan. 11
Jan. 25	Milwaukee, Wis.	Jan. 18
Jan. 26	Milwaukee, Wis.	Jan. 18
Jan. 29	Buffalo, N. Y.	Jan. 18
Jan. 30	Zephyrhills, Fla.	Jan. 11
Jan. 30	New York, N. Y. Adv. Jan. 11 and 18.	Jan. 18
Jan. 30	Bunkie, La.	Jan. 18
Feb. 1	Spokane, Wash.	Nov. 16
Feb. 15	Cheney, Wash.	Jan. 18

SEWERS

Jan. 22	Mamaroneck, N. Y.	Jan. 11
Jan. 23	Toledo, O.	Jan. 4
Jan. 23	Charlotte, N. C. Adv. Jan. 11 and 18.	Jan. 11
Jan. 23	Springwells, Mich.	Jan. 18
Jan. 24	San Francisco, Calif.	Jan. 4
Jan. 29	Spring Lake, N. J. Adv. Jan. 11 and 18.	Jan. 11
Jan. 29	Clover, S. C.	Jan. 18
Feb. 2	Denver, Colo.	Jan. 18
Feb. 6	Springwells, Mich. Adv. Jan. 18.	Jan. 18
Feb 23	Portland, Ore.	Jan. 11

WASTE DISPOSAL

Jan. 24	Fargo, N. D.	Dec. 7
Mar. 1	Spokane, Wash.	Jan. 18

BRIDGES

Jan. 23	Spokane, Wash.	Sept. 21
Jan. 23	Spartanburg, S. C.	Jan. 4
Jan. 30	Ft. Dodge, Ia.	Jan. 18
Jan. 30	Marshalltown, Ia.	Jan. 18
Feb. 7	Mermenton, La. Adv. Jan. 4 to 18.	Jan. 11
Feb. 7	Appleton, Wis. Adv. Jan. 11 and 18.	Jan. 11
Feb. 7	Bison, S. D.	Jan. 18
Feb. 14	New Orleans, La. Adv. Jan. 18.	Jan. 18
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

DAMS

Jan. 22	Megantic, Que.	Jan. 11

EXCAVATION, DRAINAGE, IRRIGATION

Jan. 22	Olivia, Minn.	Jan. 11
Feb. 6	Terra Bella, Calif.	Jan. 18
Feb. 7	Shreveport, La.	Jan. 18
Feb. 7	Baltimore, Md.	Jan. 11

STREETS AND ROADS

Jan. 22	Crescent City, Calif.	Jan. 11
Jan. 23	Georgia	Jan. 18
Jan. 23	Laredo, Tex.	Jan. 4
Jan. 23	Spokane, Wash.	Dec. 21
Jan. 23	Charlotte, N. C. Adv. Jan. 11 and 18.	Jan. 11
Jan. 24	Faribault, Minn.	Dec. 14
Jan. 24	Oklahoma	Jan. 18
Jan. 24	Brooklyn, N. Y.	Jan. 18
Jan. 25	Ft. Smith, Ark.	Dec. 28
Jan. 25	Dyersville, Ia.	Jan. 11
Jan. 25	Douglas, Ia.	Jan. 18
Jan. 26	Ohio	Jan. 18
Jan. 26	Peru, Ind.	Jan. 18
Jan. 26	New York, N. Y.	Jan. 18
Jan. 28	Cisco, Tex.	Jan. 4
Jan. 30	Quebec	Dec. 28
Jan. 30	West Virginia Adv. Jan. 11 and 18.	Jan. 11
Jan. 30	Zephyrhills, Fla.	Jan. 11
Jan. 30	Starke, Fla.	Jan. 18
Jan. 30	Indiana	Jan. 18
Jan. 30	Platte, S. D.	Jan. 18
Jan. 31	Silverton, Tex.	Jan. 18
Feb. 1	Michigan	Jan. 11
Feb. 1	North Carolina Adv. Jan. 18.	Jan. 11
Feb. 1	Georgia	Jan. 18
Feb. 2	Alabama	Jan. 11
Feb. 2	Oswego, Kan.	Jan. 18
Feb. 5	Harrisville, W. Va.	Jan. 11
Feb. 5	San Jose, Calif.	Jan. 18
Feb. 5	Williamsport, Ind.	Jan. 18
Feb. 5	Lawrenceburg, Ind.	Jan. 18
Feb. 6	Oroville, Calif.	Jan. 18
Feb. 6	Russellville, Ark.	Jan. 18
Feb. 6	St. Louis, Mo.	Jan. 18
Feb. 6	Wabash, Ind.	Jan. 18
Feb. 6	Marion, Ind.	Jan. 18
Feb. 6	Austin, Minn.	Jan. 18
Feb. 6	Duluth, Minn.	Jan. 18
Feb. 6	Mount Vernon, Ind.	Jan. 11
Feb. 7	New York Adv. Jan. 18.	Jan. 18
Feb. 7	Auburn, Ind.	Jan. 18
Feb. 9	New Castle, Pa. Adv. Jan. 18.	Jan. 18
Feb. 12	Ontario	Jan. 18
Feb. 13	Atwood, Kan.	Jan. 18
Feb. 15	Salina, Kan.	Jan. 18

INDUSTRIAL WORK

Feb. 5	Shelbyville, Ill.	Jan. 11

BUILDINGS

Jan. 19	Boston, Mass.	Jan. 18
Jan. 22	Winfield, Kan.	Jan. 18
Jan. 22	Kalamazoo, Mich.	Jan. 18
Jan. 22	Des Moines, Ia.	Jan. 18
Jan. 24	Holland, Mich.	Jan. 11
Jan. 24	Boston, Mass.	Jan. 18
Jan. 25	Owosso, Mich.	Jan. 11
Jan. 25	Crookston, Minn.	Jan. 11
Jan. 25	Alhambra, Calif.	Jan. 18
Jan. 25	Glendale, Calif.	Jan. 18
Jan. 25	Chisholm, Minn.	Jan. 18
Jan. 25	Coldwater, Mich.	Jan. 18
Jan. 26	Omaha, Neb.	Jan. 4
Jan. 27	Port Arthur, Tex.	Jan. 11
Jan. 27	Logansport, Ind.	Jan. 11
Jan. 27	Evansville, Ind.	Jan. 18
Jan. 29	Columbus, O.	Jan. 11
Jan. 29	Oakland, Calif.	Jan. 11
Jan. 29	Wash., D. C. Adv. Jan. 18.	Jan. 18
Jan. 30	Lafaivre, Ont.	Jan. 11
Jan. 30	Wenatchee, Wash.	Jan. 11
Jan. 30	New York, N. Y.	Jan. 11
Jan. 30	Jenkinstown, Pa.	Jan. 18
Jan. 30	Ames, Ia.	Jan. 18
Jan. 30	Baltimore, Md.	Jan. 18
Jan. 31	Trenton Junction, N. J.	Jan. 18
Jan. 31	Groveport, O.	Jan. 11
Feb. 1	St. Thomas, N. D.	Jan. 4
Feb. 1	Chicago, Ill.	Dec. 21
Feb. 1	Niagara Falls, N. Y.	Jan. 11
Feb. 1	Thiells, N. Y. Adv. Jan. 11 and 18.	Jan. 11
Feb. 1	Kansas City, Mo.	Jan. 11
Feb. 1	Milwaukee, Wis.	Jan. 18
Feb. 1	New Orleans, La.	Jan. 18
Feb. 2	Perry, N. Y. Adv. Jan. 18.	Jan. 18
Feb. 5	Trenton, N. J. Adv. Jan. 18.	Jan. 18
Feb. 6	San Antonio, Tex.	Jan. 18
Feb. 7	Weston, Ont.	Jan. 18
Feb. 9	Jamestown, N. Y. Adv. Jan. 11 and 18.	Jan. 11
Feb. 10	Kenosha, Wis.	Jan. 4
Feb. 12	Albion, Mich.	Jan. 18
Feb. 15	St. Charles, Minn.	Jan. 11
Feb. 23	Jamestown, N. Y. Adv. Jan. 11 and 18.	Jan. 11
Mar. 1	Red Lion, Pa.	Jan. 18
Mar. 1	Denver, Colo.	Jan. 18
Mar. 15	Duluth, Minn.	Jan. 18
Mar. 15	Trenton, N. J.	Jan. 11
Mar. 23	Shreveport, La.	Nov. 9
Apr. 1	Oil City, Pa.	Jan. 18

FEDERAL GOVERNMENT WORK

Jan. 22	Bridges—Alaska	Dec. 28
Jan. 23	Lock Operating Machinery, etc. —Huntington, W. Va. Adv. Dec. 28 to Jan. 18.	Dec. 28
Jan. 24	Levee Work—St. Louis, Mo. Adv. Dec. 28 to Jan. 18.	Dec. 28
Jan. 24	Refrigerating and Ice-Making Plant—Pearl Harbor, H. T.	Dec. 14
Jan. 24	Natatorium — Annapolis, Md. Adv. Jan. 18	Jan. 11
Jan. 24	Extension—Wash., D. C.	Jan. 11
Jan. 26	Tower—New York, N. Y. Adv. Jan. 4 to 18.	Jan. 4
Jan. 26	Dredging, etc. — Richmond, Calif.	Jan. 11
Jan. 27	Barges—Florence, Ala. Adv. Jan. 4 to 18.	Jan. 4
Jan. 29	Ward Building, etc.—Savannah, Ga.	Jan. 4
Jan. 30	Dredging Ladder — Cincinnati, O. Adv. Jan. 4 to 18.	Jan. 4
Jan. 30	Barges—Nashville, Tenn. Adv. Jan. 4 to 18.	Jan. 4
Jan. 30	Extension — New York, N. Y. Adv. Jan. 11 and 18.	Jan. 11
Jan. 30	Houses—Ft. Benning, Ga. Adv. Jan. 11 and 18.	Jan. 11
Jan. 31	Houses—Pittsburgh, Pa. Adv. Jan. 4 to 18.	Jan. 4
Feb. 1	Dredging—Galveston, Tex. Adv. Jan. 4 to 18.	Jan. 4
Feb. 1	Well—Dona Ana, N. M.	Jan. 11
Feb. 7	Detonator and Storehouse—Puget Sound, Wash.	Jan. 11
Feb. 7	Water Supply System — Tiburon, Calif.	Jan. 11
Feb. 8	Horses and Props—Cincinnati, O. Adv. Jan. 11 and 18.	Jan. 11
Feb. 10	Plotting Room, etc. — Ft. Tilden, N. Y. Adv. Jan. 18.	Jan. 18
Feb. 12	Steel, etc.—Cincinnati, O. Adv. Jan. 18.	Jan. 18
Feb. 14	Sluice Gates — Boise, Idaho	Jan. 4
Feb. 15	Furnishing Stone, etc.—Crescent City, Calif.	Dec. 28
Feb. 15	Valves—Boise, Idaho	Jan. 4
Feb. 16	Hospital — Battle Creek, Mich. Adv. Jan. 18.	Jan. 18
Feb. 21	Dredging—Galveston, Tex. Adv. Jan. 11 and 18.	Jan. 11

MISCELLANEOUS

Jan. 20	Lumber—Phila., Pa.	Jan. 18
Jan. 22	Machinery and Equipment—Georgia	Jan. 11
Jan. 22	Turbines—Winnipeg, Man.	Jan. 4
Jan. 22	Motor Trucks—Long Island City, N. Y.	Jan. 18
Jan. 22	Road Plows — Scarboro, Ont.	Jan. 18
Jan. 22	Coal and Ash Handling Plant and Equipment — Toronto, Ont.	Jan. 18
Jan. 22	—Bulkhead Wall—New York, N. Y.	Jan. 18
Jan. 23	Crane—Aberdeen, Wash.	Jan. 4
Jan. 23	Tar Patching Material, etc. —Trenton, N. J.	Jan. 11
Jan. 23	Lumber, etc.—Toledo, Ia.	Jan. 18
Jan. 23	Lumber, etc. — Montezuma, Ia.	Jan. 18
Jan. 23	Lumber, etc.—Mt. Ayr, Ia.	Jan. 18
Jan. 24	Steel, Lumber, etc. — Charles City, Ia.	Jan. 18
Jan. 25	—Alterations — New York, N. Y.	Jan. 18
Jan. 25	Lumber—New Orleans, La.	Jan. 18
Jan. 25	Timber Jetties, etc. — Rockaway Beach (Far Rockaway P. O.), N. Y.	Jan. 18
Jan. 26	Grand Stand, etc. — Topeka, Kan.	Jan. 11
Jan. 29	Bulkhead, etc. — Mineola, N. Y. Adv. Jan. 18.	Jan. 18
Jan. 30	Flushers—Mankato, Minn.	Jan. 18
Jan. 31	Lumber, etc. — Iowa City, Ia.	Jan. 18
Feb. 1	Sand—New Orleans, La.	Jan. 18
Feb. 5	Water Pipe and Fittings — Redwood City, Calif.	Jan. 18
Feb. 5	Turbine, Generator, etc. — Arizona	Jan. 18
Feb. 5	Lumber, etc.—Harlan, Ia.	Jan. 18
Feb. 7	Screening Plant — Mora, Minn.	Jan. 18
Feb. 7	Motor Truck — Appleton, Wis.	Jan. 11
Feb. 7	Lumber, etc — Waverly, Ia.	Jan. 18
Feb. 7	Lumber, etc.—Vinton, Ia.	Jan. 18
Feb. 15	Dry Dock Machinery—Esquimalt, B. C.	Jan. 4

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Erving—Having tentative sketches made by F. D. Avery, engr., 288 Main St., Greenfield, new mains, reservoir and probably pumping station. $75,000.

Waterworks (Continued)

Pa., Harrisburg — Making borings and having plans prepared 30,000,000 gal. reservoir, probably concrete, in Reservoir Park. J. H. Fuertes, 140 Nassau St., New York City, engr.

La., De Quincy—Plans election to vote on $120,000 bonds for waterworks and electric power plants. Engineer not announced.

La., Rayne—Acadia Parish voted $125,000 bonds for water and light extensions. J. B. McCrary & Co., 3rd Natl. Bank Bldg., Atlanta, Ga., consult. engrs.

O., Cleveland Heights (Warrensville, P. O.)—Plans 16 in. c.i. mains in Mayfield Rd. $100,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Dayton — Plans to issue $200,000 bonds for high pressure pipe line from Taylors St. to Fairview standpipe, also for purchasing and laying numerous small mains. I. E. Houk, city engr.

O., Martins Ferry — Preparing plans pumping station, two 4,000,000 gal. pumps, ash handling facilities, boiler plant and electric generating station. $450,000. J. N. Chester Eng. Co., Union Bldg., Pittsburgh, Pa., engrs.

Wis., Fond du Lac—Soon takes bids furnishing and installing one 5,000,000-10,000,000 gal. per day pump, steam or motor driven. J. J. Breister, supt. Water Dept.

Ia., Hawkeye—Having plans prepared remodeling plant. Taking bids on machinery and equipment. Midwest Eng. Sales Co., 321 Masonic Temple Bldg., Cedar Rapids, engrs.

S. D., Watertown—Plans filtration plant. $40,000. W. T. Cochrane, city engr.

Mo., La Plata—Defeated $190,000 bonds for new water system and sewers. Noted Dec. 7.

Tex., Alvaredo—Attorney Generals Dept., Austin, approved $30,000 bonds for waterworks improvements. Municipal Eng. Co., Praetorian Bldg., Dallas, engrs.

Tex., Seymour—City plans extending mains and improving waterworks. $25,000 available.

Ore., Gold Hill—Plans to reconstruct water supply system. $23,000 bonds voted.

Calif., Delano—Plans election to vote on $45,000 bonds for extensions and repairs to waterworks.

Calif., Manteca—See "Excavation, Drainage, Irrigation."

Calif., Santa Barbara—City Water Dept. plans to lay within next few months 25,000 ft. of 6-16 in. mains. G. Morrison, city engr.

Que., Montreal—Takes bids in March enlarging filtration plant from 50,000,000 to 70,000,000 gal. H. A. Thereault, City Hall, engr.

Ont., Essex—Plans to improve and extend waterworks. $35,000. A. Proctor, 36 Toronto St., Toronto, engr.

Ont., Gananoque—Had plans prepared 12,000 ft. mains, mostly 6 in. $40,650. J. A. Jackson, secy. water comn.

BIDS DESIRED

N. Y., Buffalo—Jan. 29, by Commissioner Pub. Wks., Municipal Bldg., furnishing and delivering special pipe castings for Buffalo Filtration plant. G. C. Andrews, Col. Ward Pumping Sta., engr.

N. Y., Dunkirk—Water Comrs. taking bids for electrical pumping machinery to be used in connection with extensions to waterworks.

N. Y., New York—Jan. 30, by Bd. Water Supply, Municipal Bldg., furnishing and delivering gate valves and hydrants for Mt. Prospect, Park Slope, Ft. Hamilton and Clove conduits and Narrows Siphon 2 of Catskill Aqueduct. Former bids rejected. G. J. Gillespie, pres.; adv. this issue. Noted Dec. 14 under "Miscellaneous."

S. C., Clover—See "Sewers."

La., Bunkie—**Jan. 30, by Town Bd.**, 4 mi. c.i. mains, hydrants, valves, etc. $50,000. Kramer Eng. Co., Magnolia, Miss., engrs.

Wis., Milwaukee—Jan. 25, at office Central Bd. Purchases, two hundred 6 in. gate valves; 200 fire hydrants; one thousand five hundred ¾ in. and two thousand ¾ in. corporation cocks, one thousand five hundred ¾ in. and one thousand five hundred ¾ in. meter cocks, three thousand ¾ in. and three thousand ¾ in. meter couplings, one thousand five hundred ¾ in. and two thousand 1 in. curb cocks; one hundred thirty-seven 8-16 in. gate valves, sixty 2-6 in. special or tapping valves; all f.o.b. Milwaukee. G. Staal, city engr.

Wis., Milwaukee — Jan. 26, by J. H. Fowles, secy. Sewerage Comn., 508 Market St., furnishing 32 sluice gates and valves, sizes from 8 in. to 6 ft., also 1,125 ton c.i. pipe and specials. G. Staal, city engr.

Ia., Hawkeye—See "Proposed Work."

Minn., St. Paul—Jan. 22, by H. W. Austin, city purch. agt., castings and fittings for Water Dept. G. M. Shepard, city engr.

Okla., Morris—Jan. 23, by City Clerk, rapid sand filter plant, basins, pumping machinery, pipe lines and dirt dam, 10,000 ft. 8 in. c.i. pipe, 75 cu.yd. concrete, 10,000 cu.yd. earth excav., two 150 gal. per min. centrifugal pumps driven by 25 hp. oil engines. $67,000. H. G. Olmstead & Co., 415 Oil Exch. Bldg., Oklahoma City, engrs. Noted Jan. 4.

Wash., Cheney—**Feb. 15, 14 in. well, 800 ft. deep, pump, housing, etc., for addition to water supply. $12,000.**

Ont, Brantford—Taking bids 2 motor driven direct connected centrifugal pumps. F. P. Adams, city engr.

Ont., London—Utilities Bd. taking bids installing 5,000 water meters. $150,000. E. V. Buchanan, Hydro Office Bldg., engr.

BIDS RECEIVED

Calif., Terra Bella—Terra Bella Irrigation Dist., opened bids furnishing riveted steel water pipe, f.o.b. Ultra on or before Feb. 1, as follows: 700 ft. 4 in., 6,700 ft. 6 in., 700 ft. 7 in. and 2,700 ft. 8 in. from Montague Pipe & Steel Co., Hobart Bldg., San Francisco, $5,400; Pacific Pipe Co., 201 Howard St., San Francisco, $5,400. Western Pipe & Steel Co., 444 Market St., San Francisco, $5,725. Noted Dec. 21.

CONTRACTS AWARDED

Pa., Phila.—Furnishing 6, 8 and 12 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Morris Bldg., $26,280; 6, 8 and 12 in. stop valves, also fire hydrants, to A. P. Smith Mfg. Co., Norman St., East Orange, N. J. $8,274 and $17,025 respectively. Noted Jan. 4.

N. C., Albemarle—Installing filtration plant, extending water and sewer lines, to Tucker & Laxton, Albemarle, $70,000. Noted Dec. 21.

Miss., Corinth—See "Sewers."

Okla., Bristow — Constructing 100,000 gal. tank and tower. 20,000 ft. 4-8 in. c.i. pipe, to Fielder & Eads, Bristow. $46,485.

Okla., Oklahoma City—Extending water and sewerage systems, to Sherman Iron Wks., East Main St., $29,700.

Sewers

PROPOSED WORK

N. Y., Rochester — See "Streets and Roads."

Md., Back River (Baltimore P. O.)—Having plans prepared auxiliary sludge pumping station, plant building and waiting station. M. J. Ruark, City Hall, sewerage engr.

Fla., Miami—Had plans prepared storm and sanitary sewers in Westmoreland Sect. and 12th Ave. Dist. $150,000. C. W. Murray, Dir. Pub. Wks.

Wis., Milwaukee—Sewerage Comn. soon takes bids intercepting sewer, Sect. 1, from Mason St. and Bway. to Brady St. and Cambridge Ave., 400 ft. of 72 in., 8,475 ft. 84 in., 687 ft. 54 in. and 355 ft. 18 in. rein.-con. sewer, 220 drop manholes, 275 ft. standard manholes; Sect. 2, from Brady St. and Cambridge Ave. to Concord and Cambridge Aves., 3,171 ft. 84 in., 4,639 ft. 78 in., 295 ft. 60 in. concrete, and 790 ft. 84 in. and 96 ft. 78 in. rein.-con. sewer, 906 ft. 24 in. and 75 ft. 12 in terra cotta pipe sewer encased in concrete, 80 standard manholes, 127 drop manholes; Oklahoma Ave. from 1st to 12th Aves., 4,215 ft. 42 in. concrete sewer, 1 junction chamber, 250 standard manholes; Scott St. from 2nd Ave. to Barclay St., 1,130 ft. 48 in. concrete sewer, 1,548 ft. 48 in. c.i. pipe sewer; completing intercepting sewer at foot of Park St., 140 ft. combined 48 in. c.i. pipe and 6 x 4 ft. concrete sewer, 75 ft. 24 in. c.i. pipe sewer, 28 ft. 54 in. concrete sewer 155 ft., 18 in. terra cotta pipe sewer incased in concrete, 1 valve chamber, 1 junction chamber. Total cost $900,000. J. H. Fowles, 508 Market St., secy.

Mo., La Plata—See "Waterworks."

Okla., Tulsa—C. Schultz, city engr., will take bids in March, storm sewers, 144 ft. horse shoe shape, in St. Louis Sect. $250,000.

Okla., Tulsa — Having plans prepared portion Elm Relief Sewer, involving 206 ft. arch span of 22 ft. $35,000. C. Schultz, city engr.

Calif., Ventura — City Council plans sewage disposal plant.

Ont., Fort Erie—Voted $50,000 bonds for extending sewers, incl. pumping plant and force mains. Prices wanted on material and equipment. T. M. Dodds, engr.

BIDS DESIRED

S. C., Clover—Jan. 29, by Town, complete sewerage system and disposal plants, ground water reservoir, and extensions to waterworks system, incl. pumps, c.i. pipe lines, etc. Carolina Eng. Co., Wilmington, N. C., engrs.

Mich., Springwells—Jan. 23, by B. P. Esper, village clk., open cut sewer outlet 4,700 ft. long through Ford property, together with bridges, channel with various cross sections. A. Roth, engr., and C. W. Hubbell, consult. engr., both at 2348 Penobscot Bldg., Detroit.

Mich., Springwells—Feb. 6, by B. P. Esper, village clk., Sewer Arms Sects. 25 to 35. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, consult. engr.; adv. this issue.

Colo., Denver — Feb. 1, by Dept. Improvements and Parks, 5 mi. 8-10 in. vitr. pipe sewer in Eastern Capitol Hill Special Sanitary Sewer Dist., $34,293; 5 mi. 8 in. vitr. sewer in South Side Special Sanitary Sewer Dist. 7, $34,811. A. K. Vickery, City Hall, city engr. Noted Dec. 28.

CONTRACTS AWARDED

N. C., Albemarle—See "Waterworks."

Miss., Corinth—Sewerage and water systems, to Merkle Mchy. Co., 1733 Walnut St., Kansas City, Mo., $68,012. Noted Dec. 14.

O., Lakewood (Cleveland, P. O.)—For 5,280 ft. 48 in. concrete or segmental block intercepting sewer, to J. Winterbottom, 1815 Corning Ave., Cleveland, $162,764. Noted Jan. 11.

Mich., Highland Park (Detroit P. O.)—For 1,518 ft. Sects. 1 and 2, Davison Ave. Sewer, to W. Blanck & Co., 823 Ford Bldg., Detroit, $25,000. Noted Dec. 14.

Wis., North Milwaukee—Metropolitan Sewerage Comn. of Milwaukee Co., 508 Market St., Milwaukee, main sewer in 32nd St. and Hampton Ave. to 48th St. and Roosevelt Dr., to Balliet Constr. Co., Adams Ave., Milwaukee, $297,725. Noted Jan. 4.

Okla., Bristow—To Fielder & Eads, Bristow, 8,000 ft. of 8-12 in. vitr. clay sanitary sewers also sprinkling filter, $32,628 and $19,079 respectively; 7,000 ft. 48 in. segmental block storm sewers, to Standard Paving Co., 1742 East 4th St., Tulsa. $59,397.

Okla., Oklahoma City — See "Waterworks."

Calif., Santa Ana — Constructing new main line outfall sewer, concrete pipe, to B. R. Ford, 407 West 17th St., $100,078.

Calif., Turlock — Constructing outfall sewer, 12,750 ft. 24 in. glazed cement pipe, to W. J. Tobin, 527 Santa Ray Ave., Oakland, $25,832. Noted Jan. 4.

Ont., Hamilton—For 2,878 ft. brick and tile sewer in main St. from Kenilworth to Strathearn Aves., to Cope & Sons, 29 Albert St., $29,430.

Ont., Sandwich—Sewers in Askin Blvd., Randolph St., and Rankin Ave., up to 18 in., to Merlo, Merlo & Ray, Sandwich St. Ford, $143,871.

Waste Disposal

PROPOSED WORK

Ore., Portland—Opened bids Dec. 29 for garbage incinerator, Proposal A, repairing and enlarging by 100 ton present incinerator, Proposal B, repairing and enlarging present incinerator by tearing out old furnaces and building new 200 ton furnace, Proposal C, building new 200 ton incinerator, Proposal D, building new 100 ton incinerator, from Pacific Coast Constr. Co., c/o Houghtaling, Dougan & Dougan, Elks Bldg., Proposal A, $45,165 plus 10 per cent of labor cost, Proposal B, $84,185, Proposal C, $125,975, Proposal D, $79,185; Superior

Waste Disposal (Continued)

Garbage Incinerator Co., Dallas, Tex., (street address not available) Proposal D, $99,800; Decarie Incinerator Co., 817 McKnight Bldg., Minneapolis, Minn., 150 ton plant, 50 x 85 ft., $208,960, 45 x 65 ft., $160,940, 200 ton plant, $216,620. All bids rejected. Plans will be revised and work readvertised. Noted Nov. 30.

BIDS DESIRED

Wash., Spokane—March 1, by C. T. Bogard, city purch. agt., 50 ton incinerator for crematory. $30,000. Noted Nov. 22.

Bridges

PROPOSED WORK

Pennsylvania—Lycoming Co. (Williamsport) and Clinton Co. (Lock Haven) plans bridge over Pine Creek, 100 ft. long, 25 ft. wide. M. H. Krause, Susquehanna Trust Bldg., Williamsport, consult. engr.

Alabama—State Hy. Dept., Montgomery, having plans prepared 511 ft. bridges on Centerville-Woodstock Rd., one 80 ft. arch, remainder deck girder type, 18 ft. roadway, Bibb Co.; 915 ft. bridge over Tallapoosa River, between Alexander City and Dadeville, six 150 ft. steel spans on mass concrete piers, 18 ft. roadway, Tallapoosa Co., $160,000; 715 ft. bridge on Montgomery-Lawrence Rd., creosote timber approach and one 120 ft. steel span, 18 ft. roadway, Grenshaw Co., $36,000; 642 ft. bridges on Greenville-Belleville Rd., one 65 ft. steel span, remainder creosoted timber, 18 ft. roadway, Conecuh Co. W. S. Keller, state highway engr.

Wis., Milwaukee—City had plans prepared and takes bids in spring 115 ft. rein.-con. and steel bridge, with bascule, 55 ft. roadway, 15 ft. walks, total length incl. approaches 200 ft., State St. $630,000. M. C. Cutler, City Hall, engr.

North Dakota—See "Streets & Roads."

Missouri — State Hy. Dept., Jefferson City, rejected bids opened Dec. 2, one 30 ft. rein.-con. deck girder, one 80 ft., one 60 ft. and one 50 ft. steel truss spans, rein.-con. slab approach spans each end, concrete piers and pile bents, etc., on road from Chillicothe north, State Project Route 3, Sect. 16, Livingston Co. Noted Dec. 28.

Tex., Liberty—See "Streets and Roads."

Tex., Richmond—Ft. Bend Co. making plans 1,510 ft. bridge over Brazos River on State Highway 3, 3 steel spans with rein.-con. pile trestle approach. $224,700. C. H. Kendall, Sugarland, co. engr.

BIDS DESIRED

Georgia—See "Streets and Roads."

Georgia—Feb. 1, by State Hy. Dept., Atlanta, furnishing all labor, material, (except cement) for construction of culverts and fills on River Rd., approach to Savannah River Bridge, near Savannah, Federal Aid Project 318, 24,294 cu.yd. common and borrow, 393 cu.yd. borrow, 23 cu.yd. wet and 24 cu.yd. dry excav., 84.96 cu.yd. concrete, 19, 1,946 lb. reinforcing. W. R. Neel, Atlanta, highway engr. State will furnish cement f.o.b. nearest railroad station.

La., New Orleans — Feb. 14, at office Dept. Pub. Finances, Purch. Div., Room 24, City Hall, furnishing and erecting Scherzer rolling lift bridge over Navigation Canal; adv. this issue.

Ohio—See "Streets and Roads."

Ia., Ft. Dodge — Jan. 30 by Auditor Webster Co., 308 ft., 6 span, cantilever deck girder bridge, concrete pier and abutments, near north limits of Ft. Dodge. $35,000. Ia. Hy. Comn., Ames, engrs. Noted Dec. 21.

Ia., Marshalltown—Jan. 30, by Auditor Marshall Co., 35 box culverts and extensions, 23 circular culverts and extensions, 1 deck girder and 1 pony truss, 1,875.6 cu. yd. concrete, 41,265 lb. steel, 128,465 lb. reinforcing. $41,300. Iowa Hy. Comn., Ames, engrs.

S. D., Bison—Feb. 7, by L. N. Robinson, aud., Perkins Co., three pony truss bridges, one 180 ft. at Jesfjeld crossing on South Grand River, one 90 ft. over Moreau River north of Imogene, and one 60 ft. over North Grand River at Hove crossing. $25,000.

BIDS RECEIVED

Missouri—State Hy. Dept., at div. office Albany, opened bids Dec. 22, (1) one 12 ft. rein.-con. slab, one 40 ft., four 20 ft. and six 30 ft. I-beam spans, 20 ft. roadways, etc., on road from Stanberry to Albany, Federal Aid Project 37B, Gentry Co. (2) sixteen 20 ft. rein.-con. slab and four 20 ft. I-beam approach spans, to main span, 20 ft. roadways, etc., on road from Albany westward, Federal Aid Project 57B, Gentry Co., from W. R. Larson Constr. Co., 519 Secy. Natl. Bank Bldg., Sioux Falls, S. D., (1) $22,910 (2) $29,733; Monarch Eng. Co., Falls City, Neb., (1) $24.343 (2) $23,397.

Missouri—State Hy. Dept. at div. office Houston, opened bids Dec. 28, one 25 ft. rein.-con. deck girder and one 100 ft. and two 80 ft. steel truss spans, 2 concrete piers, four rein.-con. abutments, 20 ft. roadways, on road from Houston southward, Federal Aid Project 90C, Texas Co., from Concrete & Steel Constr. Co., 214-223 West 3rd St., Joplin, $36,052; Coppers Constr. Sev. Co., Federal Reserve Bank Bldg., St. Louis, $37,732; Davis Constr. Co., Mammoth Springs, Ark., $39,774. Noted Dec. 21.

Missouri—State Hy. Dept., at div. office Marshall, opened bids Dec. 23, one 90 ft. and two 60 ft. rein.-con. open spandrel arch spans, 20 ft. roadway, 2 concrete piers, 2 rein.-con. abutments, over Salt Fork River on Sta. 35 plus 40, on road from Marshall east and west, Federal Aid Project 16, Saline Co., from M. E. Gillioz, Monett, $46,276; H. H. Hanenkratt, 53rd and Brooklyn Sts., Kansas City, $48,066. Noted Dec. 21.

Missouri—State Hy. Dept. at div. office Platte City, opened bids Dec. 29, three 120 ft. and one 60 ft. steel truss spans, 20 ft. roadway, concrete substructure, over Platte River, on Sta. 37 plus 00 on road from Platte City to Tracy, Federal Aid Project 93, Platte Co., from Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, Kan., $43,749; J. Stanton, 6th and Kiowa Sts., Leavenworth, Kan., $44,064; Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, $47,479. Noted Dec. 21.

Florida—See "Streets and Roads."

Missouri—State Hy. Dept. at div. office Springfield, opened bids Dec. 28, two 100 ft. steel truss spans, 20 ft. roadway, concrete substructure, over James River on Sta. 255 plus 00, on road from Springfield to Ozark, Federal Aid Project 162, Greene Co., from M. E. Gillioz, Monett, $29,898; Concrete & Steel Constr. Co., 214-223 West 3rd St., Joplin, $30,045; Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, $31,085.

Colo., Denver—City opened bids rein.-con. river spans for bridge on 16th St. between Platte and Wagee Sts., from C. S. Lambie, Tramway Bldg., $37,000, N. M. Stark & Co., 1215 Mulberry St., Des Moines, Ia., $39,460, R. M. Larson, 1309 Lalamath St., $40,000; 110 ton reinforcing steel for trusses and columns, from Milwaukee Bridge Co., 1400 34th St., Milwaukee, Wis., $0.0472 per lb., Amer. Bridge Co., 320 First Natl. Bank Bldg., $0.0476, Omaha Steel Wks., 4802 Leavenporth St., Omaha, Neb., $0.0525.

CONTRACTS AWARDED

Virginia—State Hy. Dept., Richmond, bridge on Project 169-B, Botetourt Co., to H. A. Donald Co., Lexington, $37,655; bridge on Project 205, Spottsylvania Co., to Pittsburg-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $10,506. Noted Nov. 30 under Streets and Roads.

Ia., Dubuque — Dubuque Co. to Even-Uhlrick-Staner Co., 446 Garfield Ave., 6 box culverts, $5,359, 8 box culverts and 1 pony truss $12,340; P. Eisbach & Sons, 605 Windsor Ave., 23 box culverts $15,200; W. Hantleman, Dubuque, 21 box culverts $6,323. Noted Nov. 30.

Missouri—State Hy. Dept. at div. office Kennett, one 30 ft. I-beam, one 70 ft., five 85 ft. and two 75 ft. steel truss spans, 20 ft. roadways, concrete substructures, on road from Kennett to Hayti, Federal Aid Project 212, Dunklin Co., to W. A. Leach, Poplar Bluff, $94,502; four 25 ft. rein.-con. deck girders, sixteen 20 ft. rein.-con. slabs, four 80 ft., two 50 ft., one 75 ft. and one 60 ft. steel truss spans, 20 ft. roadways, concrete substructures, etc., on road from Campbell northwestward, Federal Aid Project 221A, Dunklin Co., to M. E. Gillioz, Monett, $126,317.

Missouri—See "Streets and Roads."

Missouri — State Hy. Dept., Jefferson City, one 50 ft., one 100 ft. and one 120 ft. steel truss spans, 20 ft. roadways, rein.-con. abutments, etc., on road from Kansas City to St. Louis, State Project Route 2, Sect. 7, Lafayette Co., to Cook & O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, $48,718; one 25 ft. rein.-con. deck girder and three 50 ft. steel spans, 20 ft. roadways, concrete piers and abutments, on road from St. Louis to Kansas City, State Project Route 2, Sect. 6, Jackson Co., and one 60 ft., one 100 ft. and two 50 ft. steel truss and two 20 ft. rein.-con. slab spans, on road from St. Louis to Kansas City, State Project Route 2, Sect. 4, Jackson Co., to Alzina Constr. Co., Unity Bldg., Springfield, Ill., $28,413 and $40,102 respectively; one 120 ft. and two 60 ft. steel truss spans, 20 ft. roadway, rein.-con. piers and abutments, etc., over Big Creek, on Sta. 23 plus 80, on road from Bethany westward, State Project Route 4, Sect. 24, Harrison Co., to Rand Constr. Co., 1007 New York Life Bldg., Kansas City, $27,547; one 100 ft. and one 60 ft. steel truss, four 20 ft. and four 15 ft. rein.-con. slab spans, 20 ft. roadways, concrete piers and pile bents, etc., on road from Wayland to Canton, State Project Route 9, Sect. 7, Clark Co., to General Constr. Co., Syndicate Trust Bldg., St. Louis, $30,282; five 20 ft. rein.-con. slab, two 160 ft., one 120 ft. and one 80 ft. steel truss spans, 20 ft. roadways, concrete piers, and pile bents, etc., on road from Kansas City to Springfield, State Project Route 14, Sect. 38, Laclede Co., to Riley & Bailey, International Life Bldg., St. Louis, $79,910. Noted Dec. 28.

Missouri—State Hy. Dept., Jefferson City, 4,470 ft. steel bridge to have two 246 ft. and two 408 ft. through truss and three 208 ft. deck spans, 700 ft. trestle approach and earth embankment, over Missouri River, at Lexington, in Ray, Lafayette and Richmond Counties, to Kansas City Bridge Co., Orear-Leslie Bldg., Kansas City, $972,644.

Colorado—State Hy. Dept., Denver, steel and timber bridge on State Highway 30, Huffman Crossing of Sand Creek, El Paso Co., to J. R. Donaghy, 416 North Nevada Ave., Colorado Springs, $23,747. Engrs. est, $26,399. Noted Dec. 28.

Dams

PROPOSED WORK

N. Y., Watertown—See "Miscellaneous."

O., Troy—Preparing plans 300 ft. concrete dam and flexible rein.-con. slab apron. $60,000 bonds sold. M. Gantz, city engr.

Arizona—Salt River Valley Water Users Assn., Salt River Valley Water Users Bldg., Phoenix, plans variable radius dam, solid concrete, 166 ft. high, 90 ft. wide at bottom, 8 ft. thick on top, 27 ft. thick on bottom, canyon 320 ft. across top, Tainter gates, to store 90,000 acre feet, at Mormon Flat, Gila Co.; also nineteen 15 x 20 ft. Tainter gates in spillway, turbine and generator to generate 16,000 kilowatts at Roosevelt Dam. $1,800,000 voted for these projects. C. C. Craigin, ch. engr.

Wash., Walla Walla—Burbank Irrigation Dist. plans wing dam in Snake River, for irrigation and hydro electric development. $700,000. E. H. Chandler, Walla Walla, engr.

Ore., Bend—See "Excavation, Irrigation and Drainage."

BIDS DESIRED

Okla., Morris—See "Waterworks."

CONTRACTS AWARDED

N. H., Sunapee—See "Industrial Works."

Railways

PROPOSED WORK

Illinois—Illinois Central R.R., 135 East 11th Pl., Chicago, soon lets contract laying 5 tracks, each 2,000 ft., motor transportation for hump, $65,000, new machinery for shops, $45,000, and new machinery shed 50 x 100 ft., in yards at Centralia. Total cost $200,000. F. L. Thompson, ch. engr.

California—Atchison, Topeka & Santa Fe R.R., Kerckhoff Bldg., Los Angeles, having plans prepared double tracking 137 mi. railroad from Los Angeles to Alburquerque, N. M., $7,500,000. R. B. Ball, ch. engr.

Ontario—Toronto Transportation Comn., 35 Yonge St., Toronto, having surveys made for 1¼ mi. double tracking along Dundas St. from Keele St. to Runnymede Rd. $500,000. H. H. Couzens, mgr.

CONTRACTS AWARDED

Ontario—Grand Trunk Ry., London, will lay 100 lb. steel rails from London to Sarnia, by day labor. $500,000. C. Forrester, London, engr.

Excavation, Drainage, Irrigation

PROPOSED WORK

Wis., Green Bay—Brown Co. Drainage Bd., c/o F. Desnoyer, secy., 605 Cherry St., making plans system to drain about 800 acres, incl. 2 or 3 mi. 8-16 in drain tile. $25,000. L. M. Schindler, 721 Clark St., Appleton, engr.

Mont., Boulder — Whitehall Irrigation Dist. plans to complete irrigation project in Jefferson Co. $125,000. Black & Black, Whitehall, engrs.

Mont., Bozeman—South Bend Irrigation Dist. plans to irrigate 15,000 acres in Gallatin Co. $800,000 F. M. Brown, 822 South 3rd St., engr.

Mont., Dillon — East Bench Irrigation Dist. plans to irrigate approximately 16,000 acres in Beaverhead Co. $825,000. G. V. Elder, 232 East Bannock St., engr.

Mont., Glendive—Upper Glendive-Fallon Irrigation Dist. plans to irrigate 4,210 acres in Dawson Co. $150,000. D. P. Woods, 721 Realty Bldg., Spokane, Wash., engr.

Mont., Harlowton — Harlowton-Durand Irrigation Dist. having plans prepared irrigating 20,000 acres in Wheatland Co. $1,000,000. A. W. Verharen, 616 Holter St., Helena, engr.

Mont., Red Lodge—Red Lodge-Rosebud Irrigation Dist. had plans prepared irrigating 11,000 acres in Carbon Co. $418,000. R. H. Fifield, Billings, engr.

Utah, Price — Price Conservation Dist. takes bids early in spring, canal work. $466,000. McGonagle & Ulrick, Deseret Bank Bldg., Salt Lake City, engr.

Wash., Riverside—Riverside Irrigation Dist. plans canals, pipe lines, pumps, flumes, power plant, etc. $450,000. Engineer not selected.

Ore., Bend—Snow Creek Irrigation Dist. plans irrigation system, incl. dam at outlet of Big Lake, near here. $40,000 bonds voted.

Calif., Manteca—C. R. Lenfest, 1195 East Santa Clara St., San Jose, plans 11,750 ft. canals, 25.8 ft. wide on top, 12 ft. wide on bottom, 3.4 ft. through earth, 2 pumping plants operated by 100 hp. electric motors. $30,000.

Calif., Oroville — Thermalito Irrigation Dist., plans election to vote on $300,000 bonds, irrigating 3,000 acres, involving 6-30 in. steel and wood pipe lines. S. J. Norris, 400 Lincoln St., ch. engr.

Calif., Paradise — Paradise Irrigation Dist., had plans prepared lining ditches of district with gunite, involving 130 sta. of ditch, 14 ft. wide on bottom, 3 ft. deep. To exceed $25,000. L. M. Edwards, supt.

Ont., Owen Sound—Dominion Government, Ottawa, plans to dredge Owen Sound Harbor. $150,000. S. H. Craig, Royal Bank Bldg., London, engr.

BIDS DESIRED

La., Shreveport—Feb. 7, by Comrs. Caddo Levee Dist., 126 Milan St., improving Bayou Pierre, Caddo Parish, 245,000 cu.yd. also improving Eagle Lake Lateral, 76,000 cu.yd. J. H. Jordon, pres. bd. comrs.

Calif., Terra Bella — Feb. 6, by E. R. Clemens, secy. Terra Bella Irrigation Dist., furnishing f.o.b. Terra Bella, 300 lin.ft. 10 in., 300 lin.ft. 12 in., 300 lin.ft. 14 in. and 300 lin.ft. 16 in., double number 14 gauge well casing and 2 starter sections with shoe ⅛ in. x 8 in. for each of above named sizes; drilling 2 or more wells, each 150 ft. deep, 10, 12, 14 and 16 in. dia.

CONTRACTS AWARDED

Minn., Owatonna — Steele Co., Judicial Ditch 12, 65,052 lin.ft. 6-32 in. tile, 58 surf water inlets, etc., to North Star Concrete Co., Mankato, $24,645 for tile; labor, to Morristown, Block & Tile Co., Morristown, $20,000. Noted Dec. 21.

Streets and Roads

PROPOSED WORK

N. Y., Rochester—Plans asphalt paving Bemis alley $4,200, Kosciuslo St. $18,850, Furlong St. $30,200, Cumberland St. $30,400, Blossom Rd. $56,000; extending Arbordale Ave. $4,500; sewer and walks on Lasco St. $2,900. C. Poole, city engr.

N. J., Trenton—Plans paving 5,000 sq. yd, New York Ave., asphalt. A. Swan, City Hall, engr.

N. J., Trenton — Mercer Co. plans to improve several streets and build 9 mi. highways. $622,173. F. F. Harris, Court House, engr.

Pa., New Castle—Plans paving Lathrop, Williams and Long Aves., vitr. block on concrete. $25,000. C. E. Brown, city clk.

Pa., New Castle—Plans paving Liberty, East Washington and Croton Aves. $150,000.

Pa., Phila.—Soon takes bids grading, paving, building shelters, etc. $100,000. P. B. Sinkler, 1211 Chestnut St., archt.

Pa., Williamsport—State, Lycoming Co. and Clinton Twp. take bids in spring, 2 mi. road from Montgomery boro line to Montgomery Turnpike, across White Deer Mt. at Sylvan Dell. Total cost $90,000. Clinton Twp. voted $23,000 bonds, its share toward cost.

Md., Baltimore—Plans paving York St. from Charles to Sharp Sts., recut granite blocks; Elmora and Ravenwood Aves. between Greenview and St. Cloud Aves., and St. Cloud Ave. from Hill Top Rd. to Green Spring Ave., sheet asphalt. Private plans.

Fla., Miami — Having plans prepared laying cement sidewalks in Westmoreland Sect. and 12th St. Dist., $75,000; paving with asphalt North Miami St., $75,000; West Flagler St., $217,000, Northeast 2nd Ave., $128,000. C. W. Murray, Dir. Pub. Wks.

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, plans to surface 8.9 mi. Federal Aid Project 91, Madison Parish, sand clay and washed gravel, $108,000; 6.22 mi. Federal Aid Project 126, St. Tammany Parish, shell, $189,000; 7.7 mi. Federal Aid Project 131, East Baton Rouge Parish, sand clay, $102,000. J. M. Fourmy, ch. engr.

La., Rayne—voted $250,000 bonds for road work, connecting up with gravel roads of Lafayette on South and Roberts Cove Rd. on north, etc.

Tennessee—State Hy. Dept., Nashville, plans grading, surfacing and bridging 8 mi. road from Elizabethtown to Hampton, Carter Co., 16 ft. $200,000. D. Q. McComb, Nashville, ch. engr.

Tenn., Erwin—Unicoi Co. voted $30,000 bond issue for road from here to North Carolina state line. W. F. Paisley, co. judge.

O., Cleveland—Takes bids in spring, grading, curbing and paving Valley Rd., West 44th Pl., West Blvd., Stardale and Tyler Courts, Svack, Syslvia, Tate, Tampa, Unity, Way and Windsor Aves., East 55th, East 76th, East 105th, East 107th, East 108th, East 110th, East 111th, East 118th, East 119th, East 121st., East 122nd, East 124th, East 125th, East 130th, East 131st, East 145th, West 9th, West 24th, West 33rd, West 34th and West 47th Sts., East 116th St. from Union to Farringdon Aves., East 116th St. from Farringdon Ave. to old city limits, East 117th St. from Union to Craven Aves., East 117th St. from Kinsman Rd. to Union Ave., East 117th St. from Sellers Ave. to point 270 ft. south, East 127th St. from Penobscot Ave. to C. S. Realty Sub. 4, East 127th St. from Buckeye Rd. to Williams Ave., East 129th St. from Arlington to Iroquois Aves, East 129th St. from Union to Gay Aves. $700,000. R. Hoffman, City Hall, engr.

Ind., Bloomington — Monroe Co. plans gravel surfacing 3 mi. Gordon Rd., $26,000; 2.9 mi. Byers Rd., $25,500; 3.2 mi. Carmichael Rd., $27,200, all 16 ft. H. Chestnut, Bloomington, engr.

Ind., Decatur—Adams Co. plans gravel surfacing 2.95 mi. Mazelin Rd., 16 ft. $26,000. D. Boch, Decatur, engr.

Ind., Evansville—Vanderburgh Co. plans surfacing 16,400 ft. Green River Rd., 16 ft., crushed stone. $27,706. R. W. Meisinger, Evansville, engr.

Ind., Monticello—White Co. plans paving 14,781 ft. Dennis P. Teeter Rd., 18 ft., 27,763 sq.yd. vitr. brick on concrete. $89,892. G. A. Thomas, Monticello, engr.

Ind., Peru—Miami Co. plans paving 2 mi. Chili Rd., 16 ft., asphalt on concrete. $57,000. L. C. Johnson, Peru, engr.

Ind., Princeton—Gibson Co. had revised plans prepared surfacing with crushed stone 40,112 ft. Graper Rd., and 5 mi. H. W. Barrett Rd., both 16 ft., $73,893 and $49,174 respectively. Former bids rejected. Noted Oct. 26.

Ind., Salem — Washington Co. plans gravel surfacing 16,253 ft. Little York Rd., 16 ft. $27,106. J. C. Prow, Salem, engr.

Ind., Versailles—Ripley Co. plans paving 9,061 ft. John Bland Rd., 18 ft., 18,120 sq. yd. macadam. $37,000. O. W. Pegee, Versailles, engr.

Mich., Detroit—Having tentative plans prepared 2,000 ft. esplanade, [illegible] ft. wide, running parallel to Jefferson Ave. from Belle Isle Bridge to Baldwin Ave., to relieve traffic at approach of bridge. $800,000. H. H. Esselstyn, 3456 Cass Ave., engr.

Ill., Urbana—Champaign Co. plans election to vote on $250,000 bonds for approximately 200 mi. hard roads.

Ia., Knoxville—Plans paving 60 blocks. $200,000. W. E. Rinehart, clk.

Ia., Merrill—Takes bids about Feb. 1 for 30,000 sq.yd. paving, various types. $90,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Jan. 4.

Ia., Muscatine—Making plans paving 4 mi., brick and concrete. $225,000. J. H. Selden, Muscatine, engr.

Minn., Bemidji—Plans paving 7 blocks. $30,000. W. Everts, city engr.

Kan., Topeka—Comrs. Shawnee Co. soon take bids concrete paving 6½ mi. Southwest Trail, Dover Rd., 18 ft. $180,000. A. C. Lagerwall, Topeka, co. engr.

South Dakota—State Hy. Comn., Pierre, takes bids in spring, grading 9.6 mi. Federal Aid Project 129, Turner Co. $64,400.

S. D., Mitchell—Plans paving, curbing, guttering, etc. about 48 blocks. $180,000. F. McGovern, city aud.

S. D., Sioux Falls—Plans paving 11 blocks 22nd St. between Phillips and Menlo Aves. $33,000. W. C. Leyse, city clk.

North Dakota—State Hy. Dept., Bismarck, takes bids in spring 450 mi. grading, 160 mi. gravel surfacing, incl. 2,400,000 cu.yd. excav., 210,000 cu.yd. gravel, 2,500 pipe culverts, 50 concrete bridges. $1,000,000. W. H. Robinson, ch. engr.

N. D., Rolla—Rollette Co. plans grading 22 mi. road from Dunseith through Belcourt and Rolla to Towner Co. line. $45,000. J. H. Penny, aud.

Missouri — State Hy. Dept., Jefferson City, plans grading, etc., 5 mi. road north and south of Pemiscot, 30 ft., State Project Route 9, Pemiscot Co.; 5 mi. road east and west through Lawrence Co., 30 ft., State Project Route 14, Lawrence Co.; 3 to 5 mi. road from Doniphan eastwardly, 24 ft., State Project Route 42, Ripley Co.; 3 to 5 mi. road east and west of Wayne, 28 ft., State Project Route 34, Wayne Co.; 4 mi. road from St. Louis to St. Clair, 30 ft., State Project Route 14, Sect. 77, St. Louis Co.; 3 to 5 mi. road north and south of Taney, 24 ft., State Project 3, Taney Co.; 5 mi. road east and west through Jasper Co., 30 ft., State Project Route 14; 5 mi. road from St. Louis to Springfield, 30 ft., State Project Route 14, Laclede Co.; 3 to 5 mi. road from Crane to Galena, 24 ft., State Project Route 43, Stone Co.; 3 to 5 mi. road from Rolla southwardly, 24 ft., State Project Route 7, Phelps Co.; 5 mi. road from St. Louis to Springfield, 30 ft., State Project Route 14, Pulaski Co.; 5 mi. road from St. Louis to St. Clair, 30 ft., State Project Route 30, St. Louis Co.; 5 mi. road from St. Louis to Springfield, 30 ft., State Project Route 14, Phelps Co.; 5 mi. road south of Sikeston, 30 ft., State Project Route 55, Scott Co.; 2 mi. road from St. Clair northward, 28 ft., State Project Route 24, St. Clair Co.; 4 mi. road from Albany westward, 28 ft., State Project Route 4, Gentry Co.; 4 mi. road from Holt northward, 28 ft., State Project Route 1, Holt Co.; 3 to 5 mi. road from Rock-port eastward, 28 ft., State Project Route 1, Atchison Co.; 3 to 5 mi. road from Carroll southward, 28 ft., State Project Route 3, Carroll Co.; 3 to 5 mi. road from Jefferson City to Tuscumbia, 24 ft., State Project Route 15, Camden Co.; 3 to 5 mi. road from Gallatin eastward, 28 ft., State Project Route 6, Daviess Co.; 4 mi. road south of Tarkio, 30 ft., State Project Route 61, Sect. 4, Atchison Co.; 1 mi. road from Malta Bend to Marshall, 28 ft., State Project Route 20, Saline Co.; 3 to 5 mi. road from Harrisonville northward, 30 ft., State Project Route 35, Cass Co.; 5 mi. road from Jefferson City to Columbia, 30 ft., State Project Route 7, Callaway Co.; 3 to 5 mi. road from Charlton westward, 28 ft., State Project Route 10, Charlton Co.; 5 mi. road from Troy southward, 30 ft., State Project Route 9, Lincoln Co.; 3 to 5 mi. road from North Kansas City to Liberty, 28 ft., State Project Route 10, Clay Co.; 4 mi. road from Edina northward, 28 ft., State Project Route 15, Knox Co.; 5 mi. road from Hannibal westward, 30 ft., State Project Route 9, Ralls Co.; 5 mi. road from St. Louis to Kansas City, 30 ft., State Project Route 2, Lafayette Co.;

Streets and Roads (Continued)

4 mi. road from Holt to Andrew, 28 ft., State Project Route 1, Andrew Co.; 1 mi. road from Moberly eastward, 28 ft., State Project Route 10, Randolph Co.; 3 to 5 mi. road from Adair westward, 28 ft., State Project Route 6, Adair Co. B. H. Piepmeier, state highway engr.

Tex., Anderson—Grimes Co. election Jan. 27, to vote on $25,000 bonds issue for Richards Rd. Dist. R. W. West, co. judge.

Tex., Brenham—Washington Co. making plans grading and bridging 6.4 mi. Brenham-Gay Hill-Phillipsburg Highway on State Highway 36, 16 ft. $45,000. G. A. Bracher, co. engr.

Tex., Bryan—Attorney Generals Dept., Austin, approved $32,000 bond issue for street paving and improvements. Address Mayor.

Tex., Cameron—Milam Co. making plans grading, gravel surfacing and bituminous topping State Highway 36, 18 ft. $128,935. A. F. Mitchell, co. engr.

Tex., Columbus—Colorado Co. election Jan. 27, to vote on $100,000 bond issue improving Highway 3-D, from here to Weimar. B. H. Faber, co. engr.

Tex., Franklin—Robertson Co., Rd. Dist. 2, voted $200,000 bond issue for road and highway improvements. J. Reid, co. judge.

Tex., Gonzales—Voted $25,000 bond issue for street paving and improvements. S. B. Hopkins, Sr., mayor.

Tex., Hemphill—Sabine Co. making plans grading and gravel surfacing 11.2 mi. State Highway 21, 16 ft. $130,000. W. A. French, San Augustine, co. engr.

Tex., Kountze—Hardin Co. making plans grading, shell surfacing, etc., 29 mi. Beaumont-Silsbee Rd., on Highway 40, 16 ft., $177,500; 15 mi. Beaumont-Kountze-Valley Mills section of Highway 8, 16 ft., $165,000. G. C. Brown, co. engr.

Tex., Liberty—Liberty Co. making plans grading and bridging 36 mi. Houston-Beaumont Highway, 24 ft. Road to be surfaced at later date. $529,760. W. C. Youngs, Dayton, engr.

Colo., Denver—Plans concrete paving Alley Paving Dists. 87, 88, 89, 90 and 91, 12 blocks in each, 12-16 ft. $25,000 each A. K. Vickery, City Hall, engr.

Calif., Fresno—Had plans prepared improving Belmont Ave. between Fresno and 1st Sts., 99,712 sq.ft. grading, 90,260 sq. ft. asphalt pavement, 9,000 sq.ft. cement gutter, 21,046 sq.ft. walks, 4,998 lin.ft. concrete curb, 425 lin.ft. 12-24 in. culverts; Pine Ave. between Lucerne and Moroa Sts., and Florodora St. from Lucerne Lane to Van Ness St., 100,643 sq.ft. grading, 90,997 sq.ft. asphalt pavement, 9,262 sq.ft. concrete gutter, 3,966 lin.ft. concrete curb, 13,236 sq.ft. walks, 240 lin.ft. 12 in. corrugated iron culvert, etc. W. Stranahan, city engr.

Calif., Hayward—Having plans prepared paving 15 blocks, asphalt on concrete or asphalt base. $60,000. J. B. Holly, city engr.

Calif., Los Banos—Town Trustees plan paving 30 blocks.

Calif., Placerville—Eldorado Co. plans paving 10 mi. road between Placerville and Mosquito. H. Lahiff, co. surv.

Calif., San Rafael—Having plans prepared concrete curbing and laying sidewalks on 4 mi. streets in various sections of city. H. K. Brainerd, city engr.

Calif., Santa Rosa—Supervs. Sonoma Co. rejected bids improving Jenner-Mendocino Highway. E. A. Peugh, co. surv. Noted Jan. 4.

Que., Verdun—Soon takes bids paving Wellington, Hickson and Regina Sts., tar macadam. $100,000. H. Hadley, city engr.

Ontario—Dept. Colonization of Roads, Provincial Government, Toronto, plans 30-35 mi. gravel road from Española to Little Current, incl. clearing, grubbing, excav., etc. $400,000. C. H. Fullerton, Parliament Bldg., Toronto, engr.

Ont., Hamilton—Plans asphalt pavement on concrete on Cumberland Ave. from Grovenor to Ottawa Sts. $3,455, Cumberland Ave. from Sherman to Gage Aves. $43,256, Avondale Ave. $5,805; concrete sidewalks and curbs on Wexford Ave. $1,673, Bayfield Ave. $1,964, Stapleton Blvd. $2,367, Mountwood and Birch Aves. $2,173, Chatham St. $662. Work involves 11,000 sq.yd. asphalt, 7,500 lin.ft. concrete curbing and 6,500 lin.ft. concrete sidewalks. E. R. Gray, city engr.

ROAD WORK—OREGON

Bids were opened by State Highway Comn., Salem, Dec. 13, for grading and surfacing Goshen-Lowell section of Willamette Highway, Lane Co., (A) Warren Constr. Co., Craig Rd., Portland; (B) Washburn & Hall, 1210 Gasco Bldg., Portland; (C) Elliott, Scoggins & Parquette, 302 McKay Bldg., Portland. The unit bids were as follows:

	A	B	C
Clearing and grubbing (lump sum)	$500.00	$800.00	$800.00
64,000 cu.yd. excavation, all classes	.42	.50	.60
44,000 cu.yd. overhaul	.06	.05	.05
920 lin.ft. 12 in. plain concrete pipe	1.45	1.50	1.50
130 lin.ft. 18 in. reinforced concrete pipe	2.70	3.25	2.50
80 lin.ft. 36 in. reinforced concrete pipe	6.75	7.00	5.50
96 lin.ft. 12 in. galvanized iron pipe	1.75	1.25	1.50
40 lin.ft. 18 in. galvanized iron pipe	2.80	2.00	2.50
15 lin.ft. 24 in. galvanized iron pipe	3.50	3.00	4.00
2,000 lin.ft. 6 in. drain tile	.40	.30	.50
350 cu.yd. rock or gravel back fill	2.35	2.25	2.50
50 cu.yd. class C concrete	32.00	25.00	30.00
50 cu.yd. riprap	3.50	3.00	3.00
11,000 ft. b.m. lumber	55.00	55.00	70.00
300 lin.ft. piling	2.00	1.25	1.00
18,200 cu.yd. broken stone or gravel surface	2.25	2.37	2.74
1,750 cu.yd. gravel surface for maintenance	2.25	2.37	2.50
1,000 cu.yd. filler	.50	.50	.40
Extended totals	$82,571	$89,151	$103,091

STREET IMPROVEMENT—ST. LOUIS, MO.

Bids were opened by Bd. Pub. Serv., Jan. 2, for reconstructing Chouteau Ave. from Bway. to Jefferson Ave., (A) Independent Quarries & Constr. Co., 4875 Ashland Ave.; (B) F. A. Stiers Constr. Co., 4500 Enright Ave.; (C) Skrainka Bros. Constr. Co., Security Bldg. The unit bids were as follows:

	A	B	C
3,600 cu.yd. grading	$2.00	$2.50	$2.50
100 hrs. rolling	4.00	4.00	3.50
100 sq.yd. removing old sidewalks	.25	.50	.50
26,875 sq.yd. removing old granite blocks	.50	.40	.45
20 sq.yd. removing asphalt binder course	.50	.50	.50
10 sq.yd. removing old bitulithic	.50	.50	.50
20 sq.yd. removing old wood block	.50	.50	.50
200 sq.yd. removing old brick, etc.	.50	.50	.50
250 sq.yd. removing old concrete	2.00	1.00	.75
14,050 lin.ft. removing old curb	.50	.20	.35
11,740 lin.ft. 16 in. curb	2.00	2.10	1.85
800 lin.ft. 21 in. curb	3.00	2.60	2.41
930 lin.ft. 16 in. roundings	3.00	3.00	2.60
20 lin.ft. 21 in. roundings	3.00	3.75	3.50
230 lin.ft. reset curb	1.00	.75	2.00
30 sq.yd. vitrified brick, sand, cement, etc.	3.00	1.50	2.75
30 sq.yd. wood block pavement	4.00	1.50	3.25
30 sq.yd. refined asphalt	3.00	3.00	3.50
15 sq.yd. Warrenite bitulithic	3.00	3.00	3.50
15,900 sq.yd. recut granite, sand and grout	4.00	4.20	4.00
15,900 sq.yd. recut granite, asphalt filler	4.00	4.37	4.20
35 sq.yd. relaying granite, bed, etc.	2.00	.50	1.50
20 sq.yd. additional limestone	2.00	.50	1.00
8,000 lin.ft. expansion joints	.15	.15	.15
800 lin.ft. oak binder	.25	.20	.40
1,000 sq.ft. restoring granitoid driveways	.30	.30	.35
4,500 sq.ft. restoring sidewalks	.30	.30	.30
1,500 sq.ft. restoring brickwalks	.15	.15	.24
4,240 cu.yd. concrete	8.00	9.80	9.75
2,000 cu.ft. macadam	.08	.12	.09
25,000 ft. 2 in. plank	30.00	20.00	20.00
10 tons hydrated lime	25.00	30.00	25.00
Removing 9 trees	10.00	13.00	8.00
318 ton torpedo gravel	3.00	8.00	2.00
Extended totals	$224,649	$238,349	$232,457
Refunding 26,480 sq.yd. granite blocks	26,840	24,156	17,446
Extended grand totals	$197,917	$214,193	$215,011

Ont., St. Catherines—Plans paving various streets. $50,000. W. P. Near, City Hall, engr.

Ont., Simcoe—Plans 14,000 sq.yd. asphalt or concrete pavement on Main St. $60,000. G. R. Marston, city engr.

BIDS DESIRED

New York — Feb. 7, by H. S. Sisson, comr. State Hy. Dept., Albany, improving highways in Columbia, Dutchess, Erie, Hamilton, Saratoga and Schuyler Counties; reconstructing highways in Fulton, Greene, Montgomery and Saratoga Counties. J. C. Finch, secy.; adv. this issue.

N. Y., Brooklyn—Jan. 24 by E. Riegelmann, boro pres., Boro Hall, grading, curbing and flagging East 7th St. from Ave. R to Ave. S, 74th St.; curbing and flagging East 38th and East 39th Sts., from Cortelyou to Clarendon Rds.; paving Maple St., Sutter Ave., 74th St. from 19th to 20th Aves., 82nd St, from Bay Parkway to 23rd Ave. and 83rd St. from 21st Ave. to Bay Parkway, all foregoing permanent asphalt.

N. Y., New York—Jan. 26, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, laying sewers and flagging Sickles St. from Nagle to Sherman Aves., Dongan Pl. between Arden St. and Bway.; sewer in Arden St. from Dongan Pl. to Bway.; paving Ft. Washington Pl. (Magaw Pl.) from West 181st to West 183rd Sts. and West 183rd St. from Ft. Washington Pl. to Ft. Washington Ave., sheet asphalt on concrete.

Pa., New Castle—Feb. 9, at office C. E. Brown, city clk., City Hall, paving Montgomery St.; adv. this issue.

Georgia—Jan. 23, by State Hy. Dept., at Court House, Columbus, 2.61 mi. hard surfaced road from city limits to Bull Creek on Camp Benning Rd., Federal Aid Project 288, Muscogee Co., 28,956 sq.yd. Willite, sheet asphalt, vitr. brick or plain 7 in. concrete, 13,649 cu.yd. excav., 428 cu.yd. compacted clay gravel surfacing, 0.97 mi. machine grading, 5.124 mi. clay gravel shoulder construction, 1,648 lb. reinforcing, etc., also concrete steel bridge on same, 584.3 cu.yd. Class A and 849.6 cu. yd. Class B concrete, 77,054 lb. reinforcing, etc. W. C. Caye, Americus, engr.

Fla., Starke—Jan. 30, by E. S. Mathews, chn. Bradford Co. Bond Trustees, 6.3 mi. road from Lawtey to Clay Co., 7 mi. from Starke to Crossroads, 9.4 mi. from Starke to New River, 10.5 mi. Road No. 3, 3.1 mi. from Starke to Clay Co., 2.3 mi. Road No. 12, 1,200 cu.yd. clay to mile, 4,000 yd. excav. to mile, mixing, shaping and laying 9,000 sq.yd. to mile. Bids on each road separately.

Ohio—Jan. 26, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Fulton Co., Sect. "Wauseon" Bryan-Wauseon Rd., 0.619 mi., rein.-con., $26,340.

Geauga Co., Sect. "K-2" Cleveland-Meadville Rd., 2.536 mi., bituminous macadam, asphalt or tar, $92,273.

Geauga Co., Sect. "A" Euclid-Chardon Rd., 4.06 mi., bituminous macadam, asphalt or tar, $110,201.

Jackson Co., Sect. "L" Jackson-Ironton Rd., 4.433 mi., rein.-con., $146,789.

Montgomery Co., Sect. "R" Dayton-Greenville Rd., 3.965 mi., Kentucky rock asphalt $139,419, rein.-con., $139,804.

Morrow Co., Sect. "L" Mt. Gilead-Mans-

Streets and Roads (Continued)

field Rd., 6.332 mi., Kentucky rock asphalt $176,973, bituminous concrete $179,877, rein.-con. $179,453.

Trumbull Co., Sect. "P" Youngstown-Conneaut Rd., 2.8 mi., brick and bituminous macadam, asphalt or tar, $141,357.

Holmes Co., Sect. "1-2" Mansfield-Millersburg Rd., 1.678 mi., grading, $17,345.

Grading approaches and building concrete sub-structure and steel superstructure bridge on Sect. "K" of Mansfield-Millersburg Rd., Holmes County, $20,697. L. C. Herrick, dir. highways.

Indiana—Jan. 30, by State Hy. Comrs., Indianapolis, paving 6.063 mi. Lincoln Highway, 16 ft., (State Project), Allen Co., 56,912 sq.yd. vitr. brick or concrete on concrete; 6.78 mi. Lincoln Highway, 16 ft., (Federal Aid Project), Whitely and Allen Counties, 61,859 sq.yd. vitr. brick or concrete on concrete; 6.47 mi. French Lick Rd., 16 ft. (State Project) Vanderburgh Co., 60,741 sq.yd. vitr. brick or concrete on concrete; 6.95 mi. Boot Jack Rd., 16 ft., (State Project), Laporte Co., 65,237 sq.yd. vitr. brick or concrete on concrete. C. Gray, State House, Indianapolis, engr.

Ind., Auburn—Feb. 7, by Auditor Dekalb Co., surfacing 14,254 ft. Edward Kehlam Rd., 16 ft., crushed stone. $26,200. J. F. McDowell, Auburn, engr.

Ind., Dearborn—Feb. 5, by Auditor Dearborn Co., graveling 31,498 ft. Jacob Hoffmeier Rd., 16 ft. $53,000. H. Fitch, Lawrenceburg, engr.. Noted Aug. 31.

Ind., Marion—Feb. 6, by Auditor Grant Co., surfacing 16,780 ft. John Doty Rd., 16 ft., crushed stone. $27,500. G. Swisher, Marion, engr.

Ind., Peru—Jan. 26, by Bd. Pub. Wks., paving 5,300 ft. 5th St., 36 ft., concrete, asphalt, wood block or brick. $96,751. E. E. Phillips, Peru, engr. Noted Jan. 11.

Ind., Wabash—Feb. 6, by Auditor Wabash Co., surfacing 15,160 ft. John P. Weist Rd., 18 ft., crushed stone. $27,000. H. D. Hartman, Wabash, engr.

Ind., Williamsport — Feb. 5, by Auditor Warren Co., grading and graveling 10,724 ft. Hamilton and Weaver Rd., 20 ft. $27,-089. J. R. Gregory, Williamsport, engr.

Ia., Douglas—Jan. 25, paving 8,790 sq. yd. and relining 3,400 ft. curb on Pearl St., etc., vitr. brick, asphalt or concrete. E. E. Spetman, City Hall, engr.

Minn., Austin—Feb. 6, by Bd. Comrs. Mower Co., loading and hauling 89,403 cu. yd. gravel over total length 68⅞ mi., summary of hauls as follows: 4,513 cu.yd., ½ mi., 7,644 cu.yd. ½ to 1 mi., 77,247 cu.yd. over mi., 134,702 cu.yd. miles, 7,400 cu.yd. stripping, Jobs 2301 to 2308 inc. A. C. White, highway engr.

Minn., Duluth—Feb. 6, by F. W. Borgen, aud. St. Louis Co., clearing, grading and installing culverts, 16,400 ft. Becks Rd. between Gary St., here, and State Rd. 2, 30 ft. $45,000. R. W. Acton, co. engr.

Kan., Atwood—Feb. 13, by Comrs. Rawlins Co., grading 11.4 mi. Kansas City-Denver Air Line Rd., 135, 28 ft. $65,000. W. B. Honska, co. engr.

Kan., Oswego—Feb. 2, Comrs. Labette Co., graveling 12.9 mi. Ozark Trail, 16 ft. $200,000. Shipped in gravel will cost $15,-000 per mi. L. H. Cunningham, co. engr.

Kan., Salina—Feb. 15, by Comrs. Saline Co., grading 14.31 mi. Bee Line Rd., 32 ft. $85,000. W. H. Cost, co. engr. Noted Dec. 7.

S. D., Platte—Jan. 30, paving Main St. between 1st St. E. and 7th St., 18,873 sq. yd. pavement, 1,415 cu.yd. excav., 4,095 lin.ft. concrete curb and gutter, also another portion of Main St. involding 7,197 sq.yd. pavement, 1,120 cu.yd. excav., 5,375 lin.ft. curb and gutter. $90,000. Smith & Reeves, Mitchell, engrs.

Mo., St. Louis — Feb. 6, by Bd. Pub. Serv., 208 City Hall, grading and paving 5,140 ft. West Florissant Ave., 50 ft., refined asphalt, $152,500. 5,600 ft. Arsenal St., 30 ft., rein.-con., $80,400, 2,250 ft. Taylor Ave., 36 ft., warrenite bitulithic, $53,-350; repaving 3,100 ft. 7th St., 36 ft., granite block, $82,700, 5,202 ft. Clayton Ave., 36 ft., warrenite bitulithic or refined asphalt, $57,200, 1,900 ft. Chouteau Ave. from Compton Ave. to Grand Blvd., 36 ft., refined asphalt, $16,400. W. W. Horner, 601 City Hall, engr. Noted Dec. 7.

Ark., Russellville—Feb. 6, by Pope Co., grading, burnt shale surfacing and bridging 51 mi. in Road Impvt. Dist. 2, 306,000 cu.yd. earth excav., 14,000 cu.yd. burnt shale surfacing, 266,000 sq.yd. road surface treatment, 58,700 cu.yd. crushed stone, 71 acres clearing, 370,000 lb. structural and 85,000 lb. reinforcing steel, 12,400 yd. concrete, etc. E. Coker, Russellville, engr.

Tex., Bay City—Matagorda Co. taking bids grading and graveling 7 mi. highway, 18 ft. $110,000. J. C. Carrington, Bay City, engr.

Tex., Silverton—Jan. 31, by Comrs. Briscoe Co., at office T. L. Anderson, co. clk., grading and building structures on 8.5 mi. Silverton-Memphis Rd., Rd. Dist. 8, 18,400 cu.yd. earth, 4,000 cu.yd. loose rock and 8,500 cu.yd. solid rock excav. 28,500 cu.yd. borrow, 25,000 lin.ft. corrugated pipe culverts, 13,000 lb. reinforcing, 130 cu.yd. Class A concrete, etc. Midwest Eng. Co., Silverton, engrs. Noted Dec. 7.

Oklahoma—Jan. 24, by E. S. Alderman, state highway engr., Oklahoma City, paving 11½ mi. Federal Aid Project 100, Okfuskee Co., 50,000 cu.yd. earth and 1,000 cu.yd. rock excav., 122,000 sq.yd. 7 in. gravel with 1½ in. asphalt wearing surface, $110,000; 7½ mi. Federal Aid Project 75, Okfuskee Co., 17,000 cu.yd. earth and 3,000 cu.yd. rock excav., 80,000 sq.yd. 7 in. gravel surfacing, $105,000; 10 mi. Federal Aid Project 76, Okfuskee Co., 50,000 cu. yd. earth and 1,500 cu.yd. rock excav., 105,000 sq.yd. 7 in. gravel surface. $150,-000; 12.2 mi. Federal Aid Project 64, Okfuskee Co., 26,000 cu.yd. earth and 3,300 cu. yd. rock excav., 125,000 sq.yd. gravel surface, $275,000. Former bids rejected. Noted Nov. 16.

New Mexico—Jan. 31, by State Hy. Dept., Santa Fe, grading, surfacing and completing all structures on 1.562 mi. Federal Aid Project 71, west of Roswell, Chaves Co., 16 ft., 20,941 cu.yd. borrow, 296 cu.yd. rubble masonry, 333.3 cu.yd. Class A and 148.2 cu.yd. Class B concrete, etc.; 16.067 mi. Federal Aid Project 82, between Hondo and Picacho, Lincoln Co., 102,504 cu.yd. Class 1, 2,020 cu.yd. Class 2 and 7,794 cu.yd. Class 3 excav., 19,511 cu.yd. borrow, 6,154 cu.yd. one course gravel surfacing, 314 cu.yd. rubble masonry, 789 cu.yd. Class A and 545.95 cu.yd. Class B concrete, 22,201 lb. reinforcing bars, 3,464 lin. ft. asphalt expansion joint, etc., also for bridge work, 647.6 cu.yd. Class A concrete, 54,860 lb. reinforcing bars, 57,448 ft. wood for superstructure, etc.; 16.989 mi. Federal Aid Project 89, between Kermit and Kenna, Roosevelt Co., 13,165 cu.yd. excav., 18,396 cu.yd. borrow, 11.85 mi. crowning and shaping, 26,525 cu.yd. one course crushed stone surfacing, 44.445 cu.yd. rubble masonry, 40.25 cu.yd. Class A and 114.8 cu.yd. Class B concrete, etc., also for bridge work, 34.02 cu.yd. Class A concrete, etc.; 10.32 mi. Federal Aid Project 92, between Meloche and Raton, Colfax Co., 18,468 cu.yd. excav., 8,486 cu.yd. borrow, 3.071 mi. crowning and shaping, 16,116 cu.yd. one course gravel surfacing, 89.57 cu.yd. Class A and 98.69 cu.yd. Class B concrete, etc., also for bridges 603.11 cu.yd. Class A concrete, 55,785 lb. reinforcing bars, 67,708 ft. timber, etc.; 8.005 mi. Federal Aid Project 93, between Meloche and Dedman, Colfax Co., 7,279 cu.yd. Class 1 and 261 cu.yd. Class 2 excav., 4,771 mi. crowning and shaping, 12,724 cu.yd. one course crushed stone, 44 cu.yd. Class B concrete, etc.; 9.927 mi. Federal Aid Project 103, between Kenna and Elkins, Chaves Co., 14,470 cu.yd. Class 1, 2,569 cu.yd. Class 2 and 226 cu.yd. Class 3 excav., 8 551 cu.yd. borrow, 3,397 mi. crowning and shaping, 15,565 cu.yd one course crushed stone surfacing, 40.68 cu.yd. Class B concrete, etc.; 7.165 mi. Federal Aid Project 104, between Hot Springs and Arrey, 30,071 cu.yd. Class 1 and 4,332 cu.yd. Class 2 excav., 8,220 cu.yd. borrow, 8,202 cu.yd. one course gravel surfacing, 409.9 cu.yd. rubble masonry, 844.3 cu.yd. Class A and 321.1 cu.yd. Class B concrete, 15,698 lb. reinforcing, 4,506 ft. asphalt expansion joint, etc., also for bridges, 55 cu.yd. Class A concrete, 4,081 lb. reinforcing, etc. All foregoing 24 ft. L. A. Gillett, state highway engr.

Calif., Oroville—Feb. 6, by Supervs. Butte Co., improving 9 mi. Oroville-Chico Rd., Route 20, Sect. B, 18,550 cu.yd. excav. unclassified, 8,920 ton broken stone surfacing, 530 ton asphalt oil Grade E, 2,100 cu.yd. bank gravel to be excavated, hauled and spread, county to furnish oil. H. H. Hume, co. road engr.

Calif., San Jose—Feb. 5, by Supervs. Santa Clara Co., improving Campbell Ave. and 1st St., in Campbell, 59,733 sq.ft. new oil macadam pavement, 41,644 sq.ft. resurfacing; King Rd., 129,120 sq.ft. oil macadam pavement; Naglee Ave., 90,902 sq.ft. oil macadam pavement. I. Ryder, co. surv.

Ontario — Feb. 12, by W. A. McLean, deputy minister of highways, Toronto, 13.6 mi. concrete pavements, 20 and 24 ft. wide, 8 in. thick as follows: 5 mi. from Brantford to Paris, Contr. 794, 7.1 mi. from Woodstock to Ingersoll, Contr. 795, 0.3 mi. Binkleys Hollow, Contr. 796, 0.1 mi. Dundas Mountain, Contr. 860, $[illegible],000; 3[illegible] mi. asphaltic concrete pavements, 30-40 ft. wide, 6 mi. Dundas St. from Clappisons Corners to road between Lots 15 and 16, Nelson Twp. Contr. 797, 7.2 mi. Dundas St. from road between Lots 15 and 16, Nelson Twp., to 16 Mile Creek Bridge, Contr. 921, 5.5 mi. Dundas St. from end of pavement at Cooksville to west end of Toronto Twp., Contr. 863, 4.6 mi. Dundas St. from west limits Toronto Twp. to 16 Mile Creek Bridge, Contr. 948, 2.8 mi. Bloor St. from Danforth Turn easterly and along Kingston Rd. to end of concrete pavement, Contr. 864, 5.1 mi. road from Pickering to Whitby, Contr. 897, 4.4 mi. Kingston Rd. from Grand Trunk Ry. crossing to east limits of York Co., Contr. 918, 3.2 mi. Ottawa-Prescott Rd. from Merivale side road northerly, Contr. 798, $1,800,000; bituminous penetration pavement, 5.7 mi. road from Blacks Corners to Freeiton, Contr. 908, $175,000; macadam roadway from 3 mi. north of Belleville, northerly 1½ mi., 20 ft. wide, Contr. 799, $20,000; macadam base course 5 mi. L'Orignal West, Contr. 800, 3.1 mi. east limit of Cornwall easterly, Contr. 801, 1.56 mi. Perth South to Scotch Line, Contr. 804, $95,000; grading 5 mi. Whitby-Lindsay Rd., Contr. 802, 4 mi. Wendover easterly, Contr. 803, 2.6 mi. Joyceville South, Contr. 805, 4 mi. road from south limit of Innisfil Twp. northerly, Contr. 806, 5.3 mi. Caledon Hill to Melville Hill, Contr. 807, 4 mi. Marden North, Contr. 808, 3.1 mi. Rockwood West, Contr. 809, 4 mi. Acton to Georgetown, Contr. 810, 3 mi. Leamington to Ruthven, Contr. 811, 6 mi. Ruthven toward Essex, Contr. 812, 4 mi. Maidstone East, Contr. 813, 2.8 mi. Ruscom East and Comber East, Contr. 814, 6 mi. west limits of Mosa easterly incl. Wardsville diversion, Contr. 815, $250,000; surface treatment of macadam roads with tar, 5.7 mi. Napanee easterly, Contr. 816, 8 mi. Kingston westerly, Contr. 817, 15 mi. Kingston easterly, Contr. 818, $25,000; concrete culverts Crosby South Twp., Contr. 819, Drummond Twp., Contr. 820, Nepean Twp., Contr. 821, Ross Twp., Contr. 822, Osnabruck Twp., Contr. 823, Lancaster Twp., Contr. 824, Sophiasburg Twp., Contr. 825, Sidney Twp., Contr. 826, $160,-000. Total cost $3,000,000. G. Hogarth, University Ave. and Dundas St., ch. engr.

BIDS RECEIVED

Florida — State Rd. Dept., Tallahassee, grading, constructing timber bridge and placing rock base on 8.75 mi. road south of Lake Stearns, Highlands Co., from McCormick & Delaney, La Belle, $67,024; placing dredged embankment of 77,000 cu. yd. on 2.65 mi. portion Rd. 125, Brevard Co., from J. D. Donahoo, 605 East 3rd St., Jacksonville, $26,810, Maule Paving Co., Ojus, $40,320. Noted Dec. 28.

South Dakota—State Hy. Dept., Pierre, received bid gravel surfacing 20 mi. Federal Aid Project 77, Meridian Highway, Yankton Co., from R. W. Wiley, Summit, $30,089.

South Dakota—State Hy. Comn., opened bids Jan. 4, grading 5.98 mi. Federal Aid Project 97, from H. Pickus Constr. Co., 2316 3rd St., Sioux City, Ia., $21,469; Steele Bros., Meckling, $23,180; W. R. Larson Constr. Co., 520 Secy. Natl. Bank Bldg., Sioux Falls, $23,619. Noted Dec. 28.

Missouri—State Hy. Dept. at div. office Bloomfield, opened bids Dec. 28, 5.176 mi. road from Dexter eastwardly, 16 ft., Federal Aid Project 118B, Stoddard Co., (1) 27,227 lin.ft. grading (2) 48,456 sq.yd. specification B gravel pavement, from Novaculite Constr. Co., Marion, Ill., (1) $0.04 per lin.ft. (2) $0.63, total $31,617; Allhand & Davis, 705 Frisco Bldg., Joplin, (1) $0.08 (2) $0.67, $34,644; Dexter Constr. Co., Dexter, (1) $0.08 (2) $0.68, $35,-128.

Missouri—State Hy. Dept. at div. office Cassville, opened bids Dec. 28, 4.571 mi. road from Cassville northward, 16 ft., Federal Aid Project 151, Barry Co., (1) 24,-138 lin.ft. grading (2) 42,910 sq.yd. classification B gravel pavement, from Allhands & Davis, 705 Frisco Bldg., Joplin, (1) $0.08 (2) $0.55, total $25,532; Gaines Bros. Co., Fairland, Okla., (1) $0.12 (2) $0.55, $26,497; Short & Bramer, Morett (1) $0.07 (2) $0.60, $27,436. Noted Dec. 21.

Missouri—State Hy. Dept. at div. office Dexter, opened bids Dec. 18, 7.723 mi. road from Dexter to Bernie, 16 ft., Federal Aid Project 211A, Stoddard Co., (1) 21,182 cu.yd. earth excav. (2) 21,205 cu.yd. borrow (3) 72,615 sq.yd. specification B gravel pavement, etc., from Dexter Constr. Co., Dexter, (1) $0.225 per cu.yd. (2) $0.225 (3) $0.50, total $59,896; Allhand & Davis, 705 Frisco Bldg., Joplin, (1) $0.26 (2) $0.26 (3) $0.55, $65,501; N. Davis, Sikeston, (1) $0.25 (2) $0.25 (3) $0.60 $67,637. Noted Dec. 14.

Streets and Roads (Continued)

Missouri—State Hy. Dept. at div. office Doniphan, opened bids Dec. 23, 2.702 mi. road from Doniphan eastwardly, 12 ft., Federal Aid Project 201, Ripley Co., (1) 13,149 cu.yd. earth excav. (2) 3,954 cu.yd. borrow (3) 19,026 sq.yd. gravel pavement, etc., from T. L. Wright Lumber Co., Doniphan, (1) $0.46 per cu.yd. (2) $0.46 (3) $0.60, total $23,790; L. B. Pulliam, Doniphan, (1) $0.43 (2) $0.43 (3) $0.75, $26,065. Noted Dec. 14.

Missouri—State Hy. Dept., at div. office Galena, opened bids Dec. 28, 5.546 mi. road from Galena northwestwardly, 24 ft., Federal Aid Project 161B, Stone Co., (1) 40,294 cu.yd. earth excav. (2) 2,209 cu. yd. rock excav. (3) 3,796 cu.yd. borrow, etc., from R. H. Sharp, Reed Springs, (1) $0.40 per cu.yd. (2) $2 (3) $0.40, total $41,172; M. A. Holman, Carterville, (1) $0.40 (2) $1.75 (3) $0.36, $43,551; Republic Constr. Co., Republic, (1) $0.395 (2) $1.75 (3) $0.38, $43,834 Noted Dec. 14.

Missouri—State Hy. Dept. at div. office Greenfield, opened bids Dec. 28, 5.516 mi. road east of Greenfield northwardly, 24 ft., Federal Aid Project 213A, Dade Co., (1) 21,546 cu.yd. earth excav. (2) 4,591 cu.yd. rock excav. (3) $5,526 cu.yd. borrow, etc., from Carterville Constr. Co., Carterville, (1) $0.50 per cu.yd. (2) $2 (3) $0.50, total $31,684; Easley Bros., Aurora, (1) $0.45 (2) $2 (3) $0.41, $33,573. Noted Dec. 21.

Missouri—State Hy. Dept. at div. office Kennett, opened bids Dec. 22, (1) 6.921 mi. road from Kennett east and west, Federal Aid Project 212, Dunklin Co. (a) 19,250 cu.yd. earth excav. (b) 47,836 cu. yd. borrow (c) 35,889 sq.yd. Portland cent concrete pavement (d) 27,913 sq.yd. specification A gravel pavement, etc. (2) 11.026 mi. road from Campbell northwestwardly, 16 ft., Federal Aid Project 221A, Dunklin Co. (a) 44,294 cu.yd. earth excav., (b) 82, 728 cu.yd. borrow (c) 102,656 sq. yd. specification A gravel pavement, etc. (3) 6.43 mi. road from Holcomb northwestwardly, 16 ft., Federal Aid Project 221B, Dunklin Co. (a) 197,424 cu.yd. earth excav. (b) 104,622 cu.yd. borrow (c) 601,538 sq. yd. gravel pavement, etc. (4) 5.96 mi. road from Kennett southwestwardly, 16 ft., Federal Aid Project 209A, Dunklin Co., (a) 13,636 cu.yd. earth excav. (b) 8,593 cu.yd. borrow (c) 31,470 sq.yd. 1 course plain concrete pavement (d) 24,436 sq.yd. specification A gravel pavement, etc., from W. A. Leach, Poplar Bluff. (1a) $0.33 per cu.yd. (1b) $0.33 (1c) $2.85 (1d) $0.85, total $155,500; M. E. Gilliox, Monett, (2a) $0.40 (2b) $0.35 (2c) $0.95, total $173,986 (3a) $0.40 (3b) $0.40 (3c) $1.40, $107,450; A. Creek, Gideon. (3a) $0.45 (3b) $0.35 (3c) $0.88, $76,859; Bennett, Robertson, Carmean, Caruthersville, (4a) $0.40 (4b) $0.40 (4c) $2.89 (4d) $0.81, total $123,163. (5a) $0.40 (5b) $0.40 (5c) $2.90 (5d) $0.83 (5e) $0.50, total $263,557. (6a) $0.40 (6b) $0.40 (6c) $2.93 (6d) $0.93, total $74,787; Service Constr. Co., Poplar Bluff, (4a) $0.42 (4b) $0.40 (4c) $2.80 (4d) $0.95, $125,315 (5a) $0.40 (5b) $0.40 (5c) $2.80 (5d) $0.88 (5e) $0.40, total $260,597 (6a) $0.40 (6b) $0.40 (6c) $2.80 (6d) $0.80, total $71,905.

Missouri—State Hy. Dept., at div. office Marshall, opened bids Dec. 23. 7.702 mi. road from Marshall east and west, 24 ft., Federal Aid Project 16, Saline Co., (1) 38,314 cu.yd. earth excav. (2) 32,954 cu.yd. borrow, etc., from M. E. Gilliox, Monett, (1) $0.40 per cu.yd. (2) $0.35, total $40,370; H. H. Hanenkratt, 53rd and Brooklyn Sts., Kansas City, (1) $0.50 (2) $0.50, $49,772. Noted Dec. 14.

Missouri—State Hy. Dept. at div. office Rolla, opened bids Dec. 22, 7.195 mi. road from Newburg southwestwardly, 24 ft., State Aid Project 20.216, Phelps Co., (1) 32,545 cu.yd. earth excav. (2) 533 cu.yd. rock excav. (3) 2,844 cu.yd. borrow, etc., from Birmingham, Jones & Lenox, Rolla, (1) $0.45 (2) $2 (3) $0.45, $23,977; C. D. Vla and H. E. House, Rolla. (1) $0.50 per cu.yd. (2) $2 (3) $0.40, total $26,901; M. E. Gilliox, Monett (1) $0.50 (2) $2.25 (3) $0.40, $26,389.

Missouri—State Hy. Dept., at div. office Stockton, opened bids Dec 22, 2.016 mi. road from Eldorado Springs northward, 16 ft., Federal Aid Project 215, Cedar Co., (1) 7,039 cu.yd. earth excav., (2) 2,044 cu. yd. rock excav., (3) 8,655 cu.yd. borrow, (4) 19,136 sq.yd. specification B gravel pavement, etc., from Moss & Moss, Nevada, (1) $0.45 per cu.yd. (2) $1.70 (3) $0.37 (4) $0.45, total $25,625; Allhands & Davis, 705 Frisco Bldg., Joplin, (1) $0.435 (2) $1.80 (3) $0.435 (4) $0.525, $28,060; R. R. Littrell, Springfield, (street address not available) (1) $0.35 (2) $1 (3) $0.35 (4) $0.70, $29,625.

Tex., Bonham—Fannin Co. grading and rein.-con. paving 5.66 mi. Highway 5 in Honey Grove Dist., 18 ft., 602 cu.yd. concrete, 28,573 cu.yd. roadway and 19,271 cu.yd. borrow excav., 59,490 sq.yd. concrete pavement, 203,556 lb. reinforcing steel, (1) Type A. (2) Type B, from J. C. Feild Co., Denison, (1) $186,528, (2) $174,630; Womack Constr. Co., Sherman, (1) $188,957 (2) $183,008; F. P. McElwrath, Corsicana, (1) $187,649 (2) $184,675. Engrs. est. $330,000.

Tex., Silverton—Briscoe Co. grading 22.57 mi. and gravel and caliche surfacing 4.7 mi. State Highway 5 A, Rd. Dist. 7, 18 ft., 670 cu.yd. concrete, 128,104 cu.yd. roadway 89,429 cu.yd. borrow, 4,490 cu.yd. loose and 4,490 cu.yd. solid rock excav., 8,336 cu.yd. caliche and 6,948 cu.yd. gravel surfacing, 61,615 lb. reinforcing, from McClung Constr. Co., Cleburne, $98,010; J. F. Hamer, Stop 6, Interurban, Ft. Worth, $111,311; R. C. Covington, Floydada, $111,426. Engrs. est. $115,000.

Calif., Rio Vista—City opened bids improving (1) streets in Dist. 1, 2,200 lin.ft. concrete curb, 4,400 sq.ft. concrete gutter, 30,000 sq.ft. 1½ in. warrenite on 3½ in. asphaltic concrete, 1,200 cu.yd. excav., etc., (2) streets in Dist. 2, 10,300 lin.ft. concrete curb, 21,100 sq.ft. concrete gutter, 195,000 sq.ft. 1½ in. warrenite on 3½ in. asphaltic concrete, 5,300 cu.yd. excav., etc., from Municipal Impvt. Co., 306 12th St., Oakland, (1) $17,900 (2) $98,243; A. Teichert & Son, Ochsner Bldg., Sacramento, (1) $19,916 (2) $100,165; Warren Constr. Co., Bacon Bldg., Oakland, (1) $18.570 (2) $99,835. Noted Dec. 21.

Calif., Tulare — City opened bids improving Salida Place and Tulare St., from J. A. Dowling, Bakersfield, $35,989; Valley Paving & Constr. Co., Visalia, $36,332; Clark & Henery Constr. Co., 38 South Sutter St., Stockton. $40,243. Noted Jan. 11.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., curbing, laying sidewalks and paving 48th St., to Cleveland Trinidad Paving Co., Flushing, $19,073; McKinley Ave. and paving Olmstead Pl., to W. P. McDonald Constr. Co., 17 West 42nd St., New York, $6,579 and $5,915 respectively; Linden St., to Welsh Bros. Contg. Co., 32 Queens St., $2,546; curbing, laying sidewalks and receiving basins in Edsall Ave., to Soviero & Britten, 10111 114th St., Richmond Hill, $3,759. Noted Jan. 11.

Pennsylvania—State Hy. Dept., Harrisburg, 21,986 ft. Route 243, Sect. 2, Industry Twp., Beaver Co., 26,776 cu.yd. excav., 45,121 sq.yd. rein.-con., to Chester General Contg. Co., P. O. Box 781, East Liverpool, O., $203,961; 23,024 ft. Applications 1092 and 1096, Farmington and Pine Grove Twps., Warren Co., 22,103 cu.yd. excav., 41,063 sq.yd. rein.-con., to F. C. Chiode, assigned to Chiode & Foley, Sheffield, $164,490. Noted Dec. 14.

Pa., Phila.—Paving Bingham St., to Ferranti & Cellessi, Phila., (street address not available), $21,999; Roosevelt Blvd. to Lombardi & Yettman, Lincoln Bldg., $153,278; Champlost Ave., to Richards-Kelley Co., 349 North 57th St., $47,037; Blakemore St. to Commercial Constr. Co., 1220 Filbert St., $21,539. Noted Jan. 4.

Virginia — State Hy. Dept., Richmond, 9.95 mi. Project 169 B, Botetourt Co., bituminous macadam, to W. W. Bosley, Roanoke, $215,643; 6.28 mi. Project 186, A, Pittsylvania Co., plain concrete, to Overstreet & Nance, Bedford, $184,528; 9.91 mi. Project 205, Spottsylvania Co., plain concrete, to Spottsylvania Constr. Co., Highland Spring, $305,572. Noted Nov. 30.

N. C., Newton — To Boyd, Higgins & Goforth, Realty Bldg., Charlotte, 1,200 cu. yd. excav., 5,625 sq.ft. concrete paving, 70 sq.yd. driveways, 5,065 ft. combined curb and gutter, etc., $24,000. Noted Nov. 23.

Fla., Dade City—Bd. Comrs, Pasco Co., let following contracts paving 32 mi. road east and west from here to Gulf. Sect. A, to J. G. Yeats Co., Port Tampa, 82,632 sq.yd., 1½ in. sheet asphalt surface at $0.85 per sq.yd., 82,632 sq.yd. 8 in. loose rock base $3; Sect. B, 14.12 mi., to J. G. Yeats Co., Port Tampa, 124,260 sq.yd. ¾ penetration surface $0.28, 124,260 sq.yd. 8 in. loose rock base $3.25; bituminous macadam surfacing Sect. C, 8.48 mi., to Finley Method Co., Graham Bldg., Jacksonville, 74,620 sq.yd. surfacing $0.30; 74,620 sq. yd. 8 in. loose rock base on above, to J. G. Yeats Co., Port Tampa, $3.90. Noted Nov. 30.

Fla., Tampa — To Cone Bros., Tampa, (street address not available), paving with asphalt block and granite curbing Amelia Ave., North A, Maine and Talliaferro Sts., 13,500 sq.yd. paving, $2-$2.32; 8,700 ft. Francis and Park Aves., 7,740 lin.ft. curbing $0.60, 11,265 sq.yd. paving, $2.22-$2.24; 7,600 ft. Ridgewood and Michigan Sts., 7,600 lin. ft. curbing $0.60, 10,990 sq.yd. paving $2.10-$2.25. Noted Dec. 7.

Tennessee—State Hy. Dept., Nashville, concrete paving and bridging 2½ mi. Federal Aid Project 84, 18 ft., to Hamilton Co., c/o E. T. Murrell, co. engr., Chattanooga.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 1.42 mi. Sect. "K" Columbus-Millersburg Rd., Licking and Knox Counties, rein.-con., to Walsh & McDaniel, Columbus (street address not available), $47,391; 2.76 mi. Sect. "A" Chagrin Falls-Cuyahoga Falls Rd., Cuyahoga Co., and 2.035 mi. Sect. "R" Oberlin-Elyria Rd., Lorain Co., both warrenite bitulithic, to Highway Constr. Co., 903 Lorain Co. Bank Bldg., Elyria, $133,425 and $94,153 respectively. Dec. 28 and Jan. 4.

O., Canton—Stark Co., paving, etc. 4 mi. Alliance-Minerva Rd., 16 ft., vitr. brick, to G. Hadley, 302 Goldberg Bldg., Market Ave. S. Canton, $153,330. Engrs. est. $161,000.

Ill., Belleville—Bd. Pub. Impvts., paving and laying sewers in St. Clair Ave. and State Sts., to A. F. Poiret, Belleville, $25,255.

Ia., Des Moines—Polk Co., grading, concrete paving and incidental work on 9.062 mi. Ames-Des Moines Rd. from Ankeny north to Polk Co. Line, Federal Aid Project 187, 25,717 cu.yd. excav., 106,326 sq.yd. concrete, to Koss Constr. Co., 2818 5th St., $277,833. Noted Jan. 4.

Kan., Independence—Comrs. Montgomery Co. paving 4.51 mi. Independence-Caney Rd., 121, Sect. A, 18 ft., bituminous macadam, to Cornelison & Kelly, Wichita, (street address not available), $92,306, engrs. est. $108,414; 4.855 mi. Independence-Caney Rd., Federal Aid Project 121, Sect. D, 18 ft., bituminous macadam, to A. G. Sherwood, Independence, $115,998, engrs. est. $139,416. Noted Dec. 21.

Kan., Kansas City—Wyandotte Co. concrete paving 1.027 mi. Golden Belt Rd., Federal Aid Project 129, Sect. A, 18 ft., to Southwestern Co., 221 Dwight Bldg., Kansas City, Mo., $31,038.

Kan., Wichita — Sedgwick Co. paving 4.813 mi. road, 18 ft., with brick, Sect. A, Federal Aid Project 130, to Stewart & Ritchey, Wichita, (street address not available) $216,836; 6.019 mi. Sect. B, 18 ft., 7 in. concrete, to Ziegler & Dalton, Junction City, $208,176; bridge over Chisholm Creek, to N. E. Marsh, Wichita, (street address not available) $93,309; bridge over Gooseberry Creek, to Cornelson & Kelly, Wichita, (street address not available) $7,662. Noted Dec. 21.

Wyoming—State Hy. Dept., Cheyenne, grading and draining 7.789 mi. Federal Aid Project 118-A, Laramie Co., to Wickham Bros. & Schweiger, Lovel, $138,869.

Missouri—State Hy. Dept. at div. office Bloomfield, 6.046 mi. road from Bloomfield north and south, 12 ft., Federal Aid Project 197A, Stoddard Co., to Service Constr. Co., Poplar Bluff, $34,759. Noted Nov. 2.

Missouri—State Hy. Dept. at div. office Carthage, 0.34 mi. road from Carthage eastward, 18 ft., Federal Aid Project 84, Jasper Co., and one 70 ft. and two 60 ft. rein.-con. arch spans, spandrel filled, 20 ft. roadway, 2 concrete piers and abutments, etc., over Spring River, on above road, to Concrete & Steel Constr. Co., 214-223 West 3rd St., Joplin, $14,021 and $19,155 respectively. Noted Dec. 21 and Jan. 11.

Missouri—State Hy. Dept. at div. office Fulton, 5.925 mi. road from Fulton northeastwardly, 12 ft., Federal Aid Project 144A, Callaway Co., 7.564 mi. road from Fulton southwestwardly, 30 ft., Federal Aid Project 97, Callaway Co., and one 30

Streets and Roads (Continued)

ft. rein.-con. deck girder and one 100 ft. steel truss spans, 20 ft. roadways, concrete substructures, on above road, to Felix Kersting Co., Jefferson City, $26,183, $75,384 and $19,682 respectively. Noted Dec. 21.

Missouri—State Hy. Dept. at div office Marble Hill, 16.369 mi. road from Marble Hill to Patton, 12 ft., Federal Aid Project 202A and 4.943 mi. road from Marble Hill southward, 12 ft., Federal Aid Project 208A, both in Bollinger Co., to C. P. O'Reilley & Co., Wainwright Bldg., St. Louis, $126,565 and $48,535 respectively. Noted Jan. 11.

Missouri—State Hy. Dept., at div. office Montgomery City, 4.062 mi. road from Montgomery City east and west, Federal Aid Project 141, Montgomery Co., 26,423 cu.yd. earth and 1,201 cu.yd. rock excav., 6,400 cu.yd. borrow, 29,313 sq.yd. gravel pavement, etc., to Doehla & Kolkmeyer, Jefferson City, $41,653; 2.273 mi. road from Wellsville east and west, 24 ft., State Aid Project 20.173, Montgomery Co., to C. C. Powell, Montgomery City, $5,568.

Missouri—State Hy. Dept. at div. office Poplar Bluff, 19.791 mi. road from Poplar Bluff northwestwardly, 12 ft., Federal Aid Project 207, Butler Co., to C. M. Wilson and P. S. Smith, Poplar Bluff, $138, 509. Noted Jan. 11.

Missouri—State Hy. Dept. at div. office Potosi, 3.386 mi. road from Ironton to Potosi, 24 ft., Federal Aid Project 160A, Washington Co., to St. Louis Constr. Co., 743 Frisco Bldg., St. Louis, $26,666. Noted Jan. 11.

Missouri—State Hy. Dept. at div. office St. Charles, 3.178 mi. road from St. Charles to Warrenton, 12 ft., State Aid Project 20,220, St. Charles Co., to Farrell, Dubronillet & Cushion, Linn, $26,443. Noted Nov. 2.

Missouri—State Hy. Dept. at div. office West Plaines, 4.621 mi. road from Willow Springs eastward, 12 ft., Federal Aid Project 138A, Howell Co., to Summerfield & Jones Co., Springfield (street address not available). $36,737.

Colorado—State Hy. Dept., Denver, grading 1.787 mi. Pikes Peak Ocean to Ocean Highway, State Project 694, Park Co., 18 ft., to Levy Constr. Co., 1930 Colorado Ave., Colorado Springs, $39,495. Engrs. est. $58,114.

Wash., Tacoma — Pierce Co., concrete paving 3 mi. Bond Rd. 8, to C. H. Collins, Arlington, $1.89 per sq.yd., total $57,797. Noted Dec. 21.

Calif., Arcata—Paving 33 blocks, 5 in. asphaltic concrete 2 course, to Mercer-Fraser Co., 1st and G Sts., Eureka, $84,521. Noted Jan. 11.

Calif., Fresno — Improving Divisadero, Tuolumne Sts., etc., to W. F. Hanrahan, Griffith-McKenzie Bldg., $70,849. Noted Jan. 11.

Industrial Works

PROPOSED WORK

Mass., Springfield — Standard Electric Time Co., 81 Logan St., having plans prepared by H. L. Sprague, archt., 310 Main St., 3 story 50 x 90 ft. addition to factory, 1 story 50 x 50 ft. addition to shipping room, 1 story, 30 x 50 ft. lumber storage building, brick and timber, plain foundations, Logan St. $70,000-$100,000.

Mass., Springfield—O. Jurist, Hebron St., having plans prepared by J. W. Foster, archt., 46 Narragansett St., 1 story, 112 x 133 ft. garage, brick and steel, plain foundation, Main and Marble Sts. $58,000.

Mass., Springfield—E. Radding Constr. Co., 377 Main St., having plans prepared by J. W. Foster, archt., 46 Narragansett St., 1 story, 80 x 200 ft. garage, brick and steel, plain foundation, State St. $68,000.

Mass., Worcester—G. C. Whitney Co., 67 Union St., having plans prepared by Lockwood, Greene & Co., archts. and engrs., 24 Federal St., Boston, 6 story, 60 ft. high, 55 x 60 ft. factory addition, brick and concrete. $50,000.

R. I., Newport—Amer. Cigar Co., plans 2 story, 60 x 166 ft. factory, brick and timber, Central Wharf. $50,000. Private plans.

R. I., Woonsocket—Woonsocket Machine & Press Co., 533 2nd Ave., soon lets contract 2 story, 50 x 100 ft. plant addition, brick and steel, plain foundation. $40,000. Private plans.

Conn., Bridgeport — New Haven Dairy Co., 201 Hazel St., New Haven, having plans prepared by F. E. Brown, archt., 11 Autumn St., New Haven, 3 story and basement, 75 x 85 ft. factory, rein.-con. and brick, plain foundation, Garden St. and South Ave., here. $150,000. Noted Jan. 11.

Conn., East Hartford—Noyes-Buick Co., 17 Lawton St., Boston, plans 2 story, 70 x 100 ft. distributing and repair shop, Orchard St. $50,000. Architect not announced.

N. Y., Batavia—W. N. Clark Co., Holcomb, plans large canning factory, here. $100,000. Architect not announced.

N. Y., Jamestown—Jamestown, Westfield & Northwestern R.R., plans freight house, Monroe and Isabella Ave. $30,000. G. L. Maltby, 560 West 3rd St., purch. agt. Architect not announced

N. Y., Lackawanna (Buffalo, P. O.)—Niagara, Lockport & Ontario Power Co., 700 Lafayette Bldg., Buffalo, purchased 12 acre site here, and plans power plant and transmission line. To exceed $200,000. F. D. Corey, pres.

N. Y., Lackawanna (Buffalo, P. O.)—Seneca Iron & Steel Co., 307 Erie Co. Bank Bldg., Buffalo, purchased 6 acre site here, and plans to construct plant. Architect not selected.

N. Y., New York—H. Heide, 313 Greenwich St., soon takes bids brick, steel and concrete factory, plain foundation, Vandam St. $200,000. Maynicke & Franke, 25 East 26th St., archts. and engrs.

N. Y., New York—See "Buildings."

N. Y., Watertown—See "Miscellaneous."

N. Y., Watertown—Consumers Brewing Co. plans to convert plant into cold storage plant. $40,000-$50,000. Address W. Cain, Adams. Architects not selected.

N. J., Belleville—Westinghouse Lamp Co., 60 India St., Boston, Mass., having plans prepared by Stone & Webster, Inc., archts. and engrs., 147 Mills St., Boston, concrete and steel factory, here. $750,000.

Pa., Creighton — Pittsburg Plate Glass Co., 1600 Frick Bldg., Pittsburgh, plans brick and steel plant, here. $3,000,000. Architect not selected.

Pa., Eddystone — Baldwins Locomotive Wks., 500 North Broad St., Phila., having plans prepared 1 and 2 story factory buildings, here. $3,000,000. Private plans.

Pa., Pittsburg — Red Dog Products Corp., 613 Bessemer Bldg., plans plant, Clifford St. $50,000. Private plans.

Pa., Titusville—A. W. Caflish, c/o Caflish Lumber Co., plans garage and service station, Central Ave., to exceed $40,000. Architect not announced.

Md., Orangeville (Baltimore P. O.)—Gelfand Mfg. Co., 210 South Paca St., having plans prepared by H. G. Epstein, archt., 330 15th St. N. E., Wash., D. C., 3 story, 32 x 101 ft. factory, rein.-con. and brick. $50,000.

N. C., Tuxedo—Manufacturers Power Co., Asheville, plans hydro-electric plant, here, $750,000. Tuxedo plant is first unit of system that calls for expenditure of between $3,000,000 and $4,000,000, developing 70,000 hp. Mees & Mees, Kinney Bldg., Charlotte, engrs.

La., De Quincy—See "Waterworks."

La., Rayne—See "Waterworks."

Tenn., Knoxville—Cherokee Brick Co. plans plant, 40,000 brick daily capacity. Architect not announced.

O., Ashland—Faultless Rubber Co., had plans prepared by Osborn Eng. Co., archts. and engrs., 2848 Prospect Ave., Cleveland, 1 and 2 story, 40 x 130 ft., brick, steel and concrete warehouse and factory. $50,000.

O., Cleveland—Lincoln Fireproof Storage Co., 5660 Euclid Ave., having plans prepared by Watson Eng. Co., archts., Cook Bldg., 7 story and basement, brick, steel and concrete storage warehouse. $225,000.

O., Dayton—Duro Pump & Mfg. Co., 537 East Montgomery St., having plans prepared 5 story and basement, rein.-con. and steel factory, Monument St. $175,000. Private plans.

O., Dayton — Johnson-Watson Co., 131 East 3rd St., plans 6 story, brick and rein.-con. printing plant. $500,000. Architect not selected.

Ind., English—Rice Box and Basket Co. plans plant to replace one recently destroyed by fire. $90,000. Architect not announced.

Ind., South Bend — Studebaker Corp., Main and Bronson Sts., having plans prepared by A. Kahn, archt., Marquette Bldg., Detroit, Mich., 4 story and basement, 100 x 875 ft. factory addition, rein.-con. and brick. $450,000. Noted Jan. 4.

Mich., Corunna—Detroit Weatherproof Body Co., Corunna, having plans prepared and takes bids in April, 2 story, 60 x 100 ft. concrete and brick factory, plain foundation. $150,000. Private plans.

Ill., Centralia—See "Railways."

Wis., Chilton—Hingiss & Bessler, Kiel, having plans prepared by W. F. Neumann, archt., 114 Grand Ave., Milwaukee, 1 story and basement, 60 x 150 ft., brick and concrete garage, plain foundation. $40,000.

Wis., Chippewa Falls—Chippewa Pump Co. plans 2 story, brick, rein.-con. and steel factory, plain foundation. $50,000. Architect not selected.

Wis., Ft. Atkinson—Ft. Atkinson Canning Co. having plans prepared by McMeans & Tripp, archts., Majestic Bldg., Indianapolis, Ind., 3 story, 48 x 108 ft., canning factory, 1 story boiler house, 1 story, 54 x 54 ft. processing building, one 125 ft. steel stack, etc. $100,000.

Wis., Jefferson — Ft. Atkinson Canning Co. having plans prepared by McCeans & Tripp, engrs., 110 Majestic Bldg., Indianapolis, Ind., 2 story and basement, 47 x 85 ft. warehouse, brick, tile and concrete, plain foundation. $40,000.

Wis., Milwaukee—Natl. Lead Co., 52 2nd St., having plans prepared by Leenhouts & Guthrie, archts., 424 Jefferson St., 1 and 2 story, 108 x 116 ft., brick and timber warehouse, plain foundation, Virginia St. $40,000.

Wis., Racine — Davies Shoe Mfg. Co., Northwestern and Carlisle Aves., having plans prepared by E. B. Funston Co., archts., Janes Bldg., 3 story and basement, 39 x 90 ft., brick and timber factory addition, plain foundation, Carlisle Ave. $50,000.

Wis., Sturgeon Bay—Fruit Growers Canning Co. having plans prepared by McMeans & Tripp, archts., Majestic Bldg., Indianapolis, 3 story and basement, 122 x 130 ft. warehouse, 2 story, 84 x 144 ft. boiler house and preserving building, 1 story, 48 x 98 ft. receiving building, one 125 ft. stack, etc., rein.-con. and brick. $225,000. Noted Dec. 14.

Wis., Waupun—J. S. Morris Co. plans to rebuild factory recently destroyed by fire. $40,000. Architect not selected.

Kan., Wichita — Hayes Equipment Co., 701 East Gilbert St., had plans prepared by E. Forsblom, archt., 405 Sedgwick Bldg., 1 story, 79 x 232 ft. factory, brick, plain foundation, Gilbert St. and Santa Fe Ave. $200,000.

Mo., Hannibal—Hannibal Garage & Machine Co., having plans prepared by Burgher & Burgher, archts., 308 Hannibal Trust Bldg., 2 story and basement, 65 x 142 ft., rein.-con. and steel garage and machine shop, 113 East 3rd St. $65,000.

Mo., St., Louis—A. B. Grove, archt., 314 North 4th St., soon lets contract 3 story and basement, 130 x 220 ft., rein.-con. and brick factory addition, plain foundation, 1st St., for Carr-Trombly Mfg. Co., 2nd and Branch Sts. $50,000.

Mo., St. Louis—U. S. Motor Bus Transportation Co., 911 Title Guaranty Bldg., had plans prepared by McKelvey Constr. Co., engrs., 911 Title Guaranty Bldg., and soon takes bids three 125 to 150 x 200 ft. brick and concrete garages. $300,000.

Tex., Ft. Worth—Parker Brown Co., 1302 Pacific St., making preliminary plans 3 story and basement, 75 x 150 ft. addition to factory, rein.-con. and brick, plain foundation, East Front and Oak Sts. $75,000. M. Greenspan, pres. Architect not selected.

Okla., Weatherford—Jan. 23, to vote on $114,000 bonds 1 story, 80 x 120 ft., power plant, 500 hp., and 20 ton ice plant. Bradley St. $114,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 28.

Wash., Riverside — See "Excavation, Drainage, Irrigation."

Ore., Portland—Columbia Steel Corp., 10th and Johnson Sts., and Utah Coal and Coke Co. plans to build steel plants here and at Pittsburgh, Calif. A. M. Clark, mgr.

Calif., Los Angeles—L. J. Coburn, c/o Hamm & Grant, archts., Ferguson Bldg., having plans prepared woolen mill and office building.

Calif., Oakland—Forster & Kleiser Co. of California, 287 Valencia St., San Francisco, having plans prepared by Weeks & Day, archts., California Commercial Union Bldg., San Francisco, 1 story, rein.-con. warehouse and garage, Market and 22nd Sts., here. To exceed $50,000.

Calif., Oakland — A. P. and G. Hoffschneider, 459 21st St., plan 6 story, rein.-con., sterotyping plant, etc., 13th St. between Webster and Harrison Sts. $100,000. Architect not selected.

Calif., Pittsburgh—See "Portland, Ore."

Calif., San Francisco—R. Simone, 728 Vallejo St., had plans prepared by W. Lowe,

Industrial Works (Continued)

archt., Monadnock Bldg., 2 story, rein.-con. and frame, garage and auto salesrooms, Vallejo St. near Stockton St.

Calif., San Francisco—J. D. and A. B. Spreckels Securities Co., (Western Sugar Refinery), 2 Pine St., had plans prepared 1 story 43 ft. high, 125 x 408 ft., concrete and steel warehouse, complete system of belt conveyors with fireproof bridges and enclosures between buildings, re-location of railroad tracks and fuel oil storage tanks (latter to be in concrete retaining walls), erection of new train sheds, etc. $244,870. Private plans.

Calif., Santa Rosa—National Ice & Cold Storage Co., Postal Telegraph Bldg., having plans prepared addition to cold storage plant, probably rein.-con. $100,000. Private plans.

Calif., Tehachapi — H. Cowell Lime & Cement Co., 2 Market St., San Francisco, plans cement plant, here. $3,000,000. W. H. George, secy. and purch. agt.

Ont., London — City plans garage and repair shop. Address G. Wenige, City Hall, mayor.

Ont., Stratford—Stratford Frames and Novelties plans plant. $50,000. Private plans.

Ont., Toronto—Barrymore Cloth Co., 1179 King St. W., plans concrete, brick and steel factory, Dufferin St. $150,000. Architect not selected.

Ont., Welland—Welland Alloy Steel Co. Ltd., plans 1 story brick and steel mill. $340,000. Private plans.

BIDS DESIRED

N. J., Trenton Junction—See "Buildings."

Ind., Indianapolis — Indianapolis Glove Co., 430 North Liberty St., taking bids 5 story and basement, 100 x 160 ft. factory, rein.-con. and brick, Liberty St. $225,000. Rubush & Hunter, Amer. Central Life Bldg., archts. Noted Dec. 21.

CONTRACTS AWARDED

N. H., Concord—Boston & Maine R.R., North Sta., Boston, 1 story, 162 x 170 ft. repair shop, brick and steel, plain foundation, at freight yards, here, to H. Wales Lines Co., 134 State St., Meriden, Conn. Engrs. est. $250,000.

N. H., Sunapee—Lake Sunapee Power Co. will build hydro electric power plant with dam and 1,500 ft. steel penstock, Sunapee Harbor, by day labor. $300,000. Private plans. Noted Oct. 19.

Mass., Ashland—Saving Spring Co., c/o E. F. Bunker, 1 and 2 story, 50 x 150 ft., brick and timber, plain foundation, Pleasant St., to Palmer Constr. Co. Inc., Palmer. Archts. est. $40,000.

Mass., Roxbury (Boston P. O.)—Homestead Garage Co., 215 Columbus Ave., will build 1 story garage and service station, 23,000 sq.ft floor space, brick and concrete, plain foundation, Humboldt Ave., by day labor. $60,000. G. N. Jacobs, 12 Bosworth St., Boston, archt.

Conn., Bridgeport—A. V. Langenegger, 395 West Morgan Ave., 3 story, factory, 170 ft. front, brick and heavy timber, plain foundation, Federal St., to Hewlett Co., 886 Main St. Archts. est. $150,000. Noted Jan. 4.

Conn., New Britain—The Stanley Wks., Myrtle St., 8 story, 60 x 100 ft. factory, rein.-con. and steel, plain foundation, Church St., to Aberthaw Constr. Co., 27 School St., Boston. Archts. est. $250,000.

Conn., New Haven — Waldorf Systems, Inc., 169 High St., Boston, 1 story and basement, 75 x 95 ft., bakery, etc., brick and concrete, plain foundation, Olive and Green Sts., here, to Clark Constr. Co., 168 Grand St., Waterbury. Archts. est. $50,000.

N. Y., Oswego—Oswego Netherlands Co., general contract 1 and 2 story, ice cream plant, to G. C. Raby Constr. Co., Oswego. Archts. est. $180,000. Noted Jan. 11.

Pa., Coraopolis—Coraopolis Ice Co. will build 1½ story, 32 x 60 ft. addition to plant, 4th and Kindell Sts., by day labor. C. R. Geisler, Ferguson Bldg., Pittsburgh, archt.

Pa., Erie—Gloekler Mfg. Co., 1127 Liberty Ave., Pittsburgh, 1 story, 60 x 300 ft. brick factory, East 12th St., to J. P. Fuhr, 3945 Howley St., Pittsburgh. Archts. est. $60,000.

Pa., Erie—M. Griswold, 12th and Raspberry Sts., 2 story and basement, 100 x 150 ft. garage, 20th and State Sts., to H. Shenk Co., 12th and Sassafras Sts. Archts. est. $40,000. Noted Dec. 28.

Pa., Erie—Henry Mayer Estate, Commerce Bldg., 2 story and basement, 50 x 110 ft. brick and steel garage, 1411-1413 State St., to N. F. Blair, Commerce Bldg. $40,000.

Pa., Phila.—Art Loom Rug Mills, 2 and 3 story, rein.-con. and brick factory, plain foundation, Hancock and Westmoreland Sts., to W. Steele & Sons, 16th and Arch Sts., $100,000.

Pa., Phila.—W. F. Reed & Sons, 12th and Snyder Aves., 5 story and basement, 65 x 70 ft. rein.-con. and brick factory, plain foundation, 12th and Jackson Sts., to W. F. Newberry Co., Otis Bldg., $200,000.

Pa., Pittsburgh—Guibert Eng. Co., 703 Diamond Bank Bldg., 1 story, 50 x 200 ft. plant, Wind Gap Rd., to Memphis Steel Constr. Co., Magee Bldg. Engrs. est. $100,000.

Md., Baltimore — Air Reduction Sales Co., 342 Madison Ave., New York City, 1 story, 74 x 122 ft. factory, brick and hollow tile, 11th and East Fayette Sts., here, to West Constr. Co., Amer. Bldg., $70,000. Noted Nov. 30.

Tenn., Chattanooga — Western Union Telegraph, 195 East Bway., New York City, 1 story, 200 x 300 ft., steel and concrete, repair shop, here, to A. F. Hahn, Chbln. Bldg., $175,000.

O., Delaware—W. H. Duffy, dir. Pub. Serv., Oak and 9th Sts., Columbus, 1 story and basement, 60 x 80 ft. power house, 25 ft. high, laundry with two 30 x 90 ft. wings, both brick and concrete, 15,000 gal. coagulating and 26,000 gal. reserve reservoirs, at Girls Industrial Home, Concord, Delaware Co., to Middle States Constr. Co., 524 East Hudson St., Columbus, $97,472. Noted Dec. 14.

Ind., Cannelton—Cannelton Sewer Pipe Co., 4 story, 75 x 130 ft. factory, rein.-con. and brick, incl. 32 kilns, 120 ft. radial stack, power plant, 1,000 ft. switching tracks, to Hoffman Constr. Co., Furniture Bldg., Evansville. Archts. est. $200,000. Noted Dec. 21.

Ind., South Bend—Superior Laundry Co., 2 story and basement, 60 x 150 ft. laundry, brick, Sycamore St., to H. A. Christman Constr. Co., 306 Notre Dame Ave. Archts. est. $40,000.

Ill., Chicago—Ford Motor Co., Highland Park, (Detroit P. O.) Mich., 1 story, 502 x 1363 ft. assembly plant, 14 ft. high, brick, steel and rein.-con., Torrence Ave., here, also 100 x 100 ft. power house, complete with boilers and accessories, to A. Brundage Co., 110 South Dearborn St. Noted Dec. 7.

Ill., Chicago—Electrical Dealers Supply Co., 121 West Randolph St., 3 story, 77 x 200 ft. factory, rein.-con., brick and steel, 2220-26 Diversey Ave., to Schramer Constr. Co., 127 North Clark St. Archts. est. $150,000. Noted Dec. 28.

Ill., Chicago—Superior Furniture Co., 3301 West 47th St., 3 story, 113 x 140 ft. factory, rein.-con., brick and steel, to Rowley Bros., 332 South La Salle St. Archts. est. $90,000.

Ill., Chicago—United Autographic Register Co., 43rd St. and Western Blvd., 2 story, 60 x 96 ft. factory addition, rein.-con., brick and steel, to E. W. Sproul Co., 2001 West Pershing Rd. Archts. est. $40,000.

Ill., Chicago—Westinghouse Electric Mfg. Co., 111 West Washington St., 7 story, 130 x 240 ft., warehouse, rein.-con., brick and steel, 2201-21 West Pershing Rd., to E. W. Sproul Co., 2001 West Pershing Rd. Archts. est. $750,000.

Wis., Appleton—Gibson Auto Exch., c/o A. Gibson, Mgr., 7 South Church St., Oshkosh, will build 1 story, 46 x 82 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation, by day labor. $50,000. Private plans.

Wis., Madison—Kennedy Dairy Co., 618 University Ave., 1 story, 50 x 75 ft. ice plant, brick, rein.-con. and steel, plain foundation, to C. B. Fritz Co., 138 North Frances St. Archts. est. $40,000. Noted July 13.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, general contract 2 story, 54 x 225 ft. rein.-con. and brick service building, plain foundation, for St. Louis Training School for Feeble Minded, at Scott Farm, to J. A. Godfrey & Co., Wainwright Bldg., $107,433. Noted Jan. 11.

Wis., Sheboygan—City c/o J. Steimle, clk., 1 story, 76 x 108 ft., carpenter and woodworking shop; rein.-con., brick and steel, South Water St., to Nack & Booth, 1213 North 17th St. Archts. est. $40,000. Noted Dec. 14.

Wis., Watertown—Perfection Table Slide Co., c/o W. C. Schultz, mgr., 2 story, rein.-con., brick and steel factory, plain foundation, to O. L. Gaston, Watertown. $50,000.

Minn., Red Wing — Red Wing Sewer Pipe Co., will build 3 story, 52 x 272 ft. dry house, brick and concrete, by day labor. $85,000. A. F. Gauger, 302 Central Bank Bldg., St. Paul, archt. Noted Dec. 7.

Kan., Winfield—Stuber Bros. 1 story and basement, rein.-con. and brick garage, plain foundation, to P. H. Frankenfeld, Enid, Okla., $50,000.

Calif., Elmhurst — E. H. Nielson, 16 California St., San Francisco, general contract 1 and 2 story, brick warehouse, here, to West Coast Constr. Co., 519 California St., San Francisco, $135,000.

Calif., San Francisco—J. Pasqualetti, 785 Market St., 2 story and basement, 57 x 137 ft., concrete garage, McAllister St. near Fillmore St., to Amer. Concrete Co., Humboldt Bank Bldg., $40,000.

Calif., San Francisco—R. McLaren & Co., (owners and general contractors), Hearst Bldg., preparing plans and will build 5 story, 80 x 160 ft., rein.-con. warehouse, Harrison and 2nd Sts., by day labor.

Calif., San Francisco—R. McLeran & Co., (owners and general contractors), Hearst Bldg., preparing plans and will build 5 story, 200 x 200 ft., rein.-con. warehouse, 18th and Alabama Sts., by day labor.

Buildings

PROPOSED WORK

Vt., Burlington — High School — School Dept. plans 2 story and basement, brick and steel, Union St. $400,000. F. L. Austin, 240 College St., archt.

Mass., Brighton (Boston P. O.)—Apartment—Summit Realty Trust, 40 Court St., Boston, had plans prepared by Silverman, Brown & Heenan, archts., 51 Cornhill, Boston, six 3 story and basement, 60 x 80 ft., brick and steel, plain foundations, Woodstock Ave. and Warren St., here. $400,000.

Mass., Brighton (Boston P. O.)—Sales—Commonwealth Investment Co., 40 Court St., Boston, having plans prepared by Silverman, Brown & Heenan, archts., 51 Cornhill, Boston, 1 story and basement, 100 x 260 ft., brick and stone, plain foundation, Commonwealth Ave., here. $275,000.

Conn., Hartford — Business — Nirenstein & Schwarz, 1247 Main St., having plans prepared by Berenson & Moses, archts., 1047 Main St., 3 story, 60 x 120 ft., brick, stone, hollow tile and terra cotta, Elm and Main Sts. $150,000.

Conn., Hartford — Fire Headquarters — Fire Comrs. plan 3 story, brick and concrete, Ann and Pearl Sts. $200,000. Architect not selected.

Conn., Meriden — School — School Bd. plans 3 story, brick and steel, Park Ave. $300,000. W. T. Arnold, 34½ Main St., consult. archt.

Conn., New Haven — Clubhouse — Yale University plans 2 story, near Yale Bowl, Derby Ave. $200,000. Architect not announced.

Conn., New Haven — Parish House — Trinity Church Parish, c/o C. S. Palmer, archt., 114 Whitney Ave., plans 3 story and basement, 150 x 200 ft., brick and stone, Church and Wall Sts. $300,000.

N. Y., Brooklyn—Apartment—M. Jonas, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., New York, soon takes bids brick, steel and stone, plain foundation, 4th Ave. and 79th St., here. $250,000.

N. Y., Brooklyn—Theatre—M. W. Del Gaudio, archt. and engr., 160 West 45th St., New York, preparing plans brick, steel and stone, plain foundation, 2,500 seating capacity, 86th St. between 4th and 5th Aves., here. $500,000. Owner's name withheld.

N. Y., Coney Island (Brooklyn, P. O.)—Theatre—Allwell Development Co., c/o Shampan & Shampan, archts. and engrs., 188 Montague St., Brooklyn, having preliminary plans prepared, brick, steel and stone, plain foundation, on plot 244 x 650 ft., Surf Ave., here. $300,000.

N. Y., New York—Laboratory—Columbia University, 116th St. and Bway., plans brick, steel and stone, plain foundation, Bway. $500,000. N. M. Butler, pres. Architect and engineer not selected.

N. Y., New York—Sales, etc.—Studebaker Corp. of America, Main and Bronson Sts., South Bend, Ind., having plans prepared by W. S. Ferguson Co., archts. and engrs., 1900 Euclid Ave., Cleveland, 6 story and basement, 175 x 200 ft., rein.-con. and brick sales and service building, West 131st St., here. $400,000.

N. Y., Ogdensburg—School—Bd. Educ. plans new school. $150,000-$175,000. Address D. J. Chrichton.

N. Y., Roosevelt—School—Bd. Educ., soon takes bids brick, steel and stone, plain

Buildings (Continued)

foundation. Tooker & Marsh, 101 Park Ave., New York, archts. and engrs.

N. Y., Whitehall—School—Bd. Educ. soon takes bids brick, steel and stone, plain foundation. Tooker & Marsh, 101 Park Ave., New York City, archts. and engrs. Noted Sept. 14.

N. J., Newark—Museum—City having sketches made 110 x 498 ft., brick, steel and stone, plain foundation, Washington and Plan Sts. $1,000,000. Private plans.

N. J., Trenton—Apartment—C. F. Hildebrecht, West State and Chancery Sts., having plans prepared by W. Hankin, archt., 39 East State St., 8 story, brick and steel, West State St.

Pa., Allentown—Apartment—A. Potruch, 510 Main St., Bethlehem, plans 5 story, brick, Hamilton St., here. Architect not announced.

Pa., Braddock—Bank—First Natl. Bank soon takes bids brick, steel and stone, plain foundation. $200,000. W. L. Stoddart, 9 East 40th St., New York City, archt. and engr. Noted Nov. 16.

Pa., Clearfield—Lodge Home—Lodge of Elks 540, Market and 2nd Sts., takes bids in spring, 3 story and basement, 50 x 115 ft. concrete and brick, 3rd and Cherry Sts. $150,000.

Pa., Harrisburg—Lodge and Office—International Brotherhood Compensation & Relief Fund, Inc., had plans prepared by C. H. Kain, archt., 317 Chestnut St. and takes bids latter part of February, 13 story and basement, 124 x 127 ft., with 33 x 80 ft. wing, rein.-con., brick, steel and stone, 6th and Maclay Sts. $1,000,000.

Pa., Hazelton—Bank and Office—Hazelton Natl. Bank, c/o D. C. Kunkel, soon takes bids 5 story and basement, brick, steel and stone, plain foundation. $500,000. Thomas, Martin & Kirkpatrick, Otis Bldg., Phila., archts.

Pa., Jeannette—Church—Sacred Heart Catholic Church having plans prepared by C. C. Strong, archt., Union Bank Bldg., Pittsburgh, 1 story, 86 x 156 ft., 7th St. $150,000.

Pa., Johnstown—Business—P. N. Duca, East Main St., takes bids in spring, 4 story and basement, 85 x 120 ft. rein.-con., brick and steel. $150,000.

Pa., Merion—Art Museum—A. Barnes had plans prepared by Paul & Cret, archts., 1535 Chestnut St., Phila., and soon takes bids 2 story and basement, rein.-con., brick and steel, plain foundation. $3,000,000.

Pa., New Castle—Apartment—E. H. Hileman plans large apartment, Wallace and Jefferson Aves. $150,000. Architect not announced.

Pa., Oakmont—High School—School Dist. having plans prepared by W. G. Eckles Co., archts., Lawrence Savings & Trust Co., New Castle, 2 story, concrete, brick and steel. $275,000.

Pa., Phila.—Administration—Dept. Pub. Wks., City Hall, soon takes bids 2 story and basement, 180 x 220 ft. brick, steel and stone, plain foundation, Richmond and Delaware Aves. $200,000. P. B. Sinkler, 1211 Chestnut St., archt.

Pa., Phila.—Hotel—Phila. Hotel Co., c/o A. D. Brennan, c/o Raph & White, archts., Penna. Bldg., soon takes bids 20 story and basement, 84 x 219 ft. brick and stone, Broad and Locust Sts. $3,000,000.

Pa., Phila.—Store and Office—Oppenheim, Collins & Co., 1207 Chestnut St., soon takes bids 6 story, basement and sub basement, 48 x 230 ft., brick, steel and stone, plain foundation, 1126 Chestnut St. $500,000. Buckman & Kahn, 56 West 45th St., New York City, archts.

Pa., Pittsburgh—Apartment—E. J. Riffle, Oliver Bldg., plans 5 story and basement, 85 x 85 ft. with 60 x 224 ft. and 60 x 247 ft. wings, brick, tile and steel, North Highland Ave. $1,500,000. Architect not selected.

Pa., Schuylkill (R. D. from Phoenixville)—Fair—Schuylkill Co. Argicultural Assn. plans to construct new fair buildings on 18 acre site. $150,000. Architect not announced.

Pa., Sharon—Church—Holy Trinity Lutheran Church, plans brick or stone, South Oakland Ave., to exceed $150,000. Address W. H. Brown, pastor. Architect not selected.

Md., Baltimore—College—Mayor and City Council, City Hall, plan 4 or 5 story, brick and steel, 33rd St. $1,250,000. Architect not selected.

Md., Baltimore—Office—Home Friendly Society, 1026 Linden Ave., plans 10 story, brick, Cathedral and Centre Sts. $250,000. G. A. Chase, pres. Architect not selected.

Md., Baltimore—School—Mayor and City Council had plans prepared by W. W. Emmart, archt., Union Trust Bldg., 2 story, rein.-con. and brick, Woodberry St. $400,000.

Md., Baltimore—School—Mayor and City Council having plans prepared by T. W. Pietsch, archt., Amer. Bldg., 3 story and basement, 111 x 211 ft., brick and steel, Jackson Pl., Fairmount Ave., Ann and Fayette Sts. $700,000. H. Massart, 324 North Charles St., engr.

Md., Baltimore—Store—Hutzler Bros. having plans prepared by J. E. Sperry, archt., Calvert Bldg., and F. Baldwin, associated archt., 328 North Charles St., 7 story, brick and steel, Howard and Clay Sts. $300,000. H. F. Doeleman, 507 North Charles St., engr.

D. C., Wash.—Hospital—Garfield Hospital having plans prepared by Marsh & Peters, archts., 1304 F Sts., N. W., for hospital addition. Conducting campaign for funds.

D. C., Wash.—Hotel—G. W. McCord, 101 D St., N. E., soon takes bids for hotel. $175,000. Milburn-Heister Co., 710 14th St., archts.

D. C., Wash.—Theatre—F. H. Smith Co., 1414 I Sts., N. W., plans 11 story, 160 x 256 ft., stone and steel theatre and hotel or theatre and office, 14th and F. Sts. $4,500,000.

W. Va., Morgantown—Hotel—Morgantown Hotel Co., having plans prepared by S. F. Heckert, archt., 620 Bessemer Bldg., Pittsburgh, Pa., 7 story and basement, 55 x 175 ft., brick and stone. $400,000. Noted Dec. 28.

N. C., Charlotte—Office—Anchor Mills Co., having plans prepared by Lockwood, Greene & Co., archts., Piedmont Bldg., 15 story, fireproof, North Tryon St.

Ga., Atlanta—Hotel—J. McE. Bowman, Hotel Biltmore, 43rd St., New York City, having preliminary plans prepared by Schultze & Weaver, archts. and engrs., 17 East 49th St., New York City, brick, steel and stone, plain foundation, here. $6,000,000.

La., New Orleans—Church—Church of Sacred Heart of Jesus, having plans prepared by E. Weil, archt., associated with A. Bendernagle, Whitney Central Bldg., for church, South Lopez and Canal Sts. $150,000.

Tenn., Memphis—Office—Security Bldg. Co., c/o B. A. Bogy, 46 North 2nd St., takes bids latter part January, 12 story, 75 x 85 ft., rein.-con., tile and stone, Front and Madison Sts. $1,000,000. McKim, Mead & White, 101 Park Ave., New York City, and L. C. Carlisle, Falls Bldg., Memphis, archts.

O., Canton—Store—Stern & Mann, Market Ave., N., having plans prepared by Eperson & Pond, archts., Martin Blk., 3 story, 33 x 200 ft., brick and steel addition. Plans for structural steel completed. Architects taking bids for foundation. $150,000.

O., Cleveland—Apartments—Watson Eng. Co., archts., Cook Bldg., preparing plans two 4 story, brick, steel and concrete, West 46th St. and Hyde Ave. $400,000. Owners name withheld.

O., Cleveland—Commercial—G. and E. J. Paul, 611 Fidelity Mortgage Bldg., having preliminary plans prepared by J. F. Steffens, archt., 611 Fidelity Mortgage Bld., 3 story and basement, 85 x 300 ft., brick, steel and concrete, Euclid Ave. between East 40th and East 45th Sts. $300,000.

O., Cleveland—Commercial and Theatre—H. P. Chester, 207 The Arcade, having preliminary plans prepared by W. G. Caldwell, archt., Park Bldg., 2 story, 123 x 150 ft., brick and steel, Lorain Ave. and West 118th St. $150,000.

O., Cleveland—Store—Bedell Cloak & Suit Co., 19 West 34th St., New York City, had plans prepared by G. H. Shonewald, archt., Grand Central Terminal, New York City, 6 story and basement, brick, steel and concrete, 746 Euclid Ave. $300,000.

O., Dayton—Office—Cooper Medicine Co., East 3rd St., plans 10 story, brick and rein.-con., 1st and Main Sts. $750,000. Architect not selected.

O., Geneva—High School—Bd. of Educ. plans 3 story, 20 room, brick steel and concrete. $175,000. R. H. Cowdery, pres. Architect not selected.

O., Youngstown—Hotel—E. Salow, c/o Hotel Salow, plans rebuilding hotel recently destroyed by fire. To exceed $300,000. Architect not selected.

Ind., Indianapolis—Apartment—G. J. Marrot, 18 East Washington St., plans apartment, brick, 416 North Meridian St. $500,000. Kopf & Woolling, Pythian Bldg., archts.

Ind., Indianapolis—Club—Columbia Club, Monument Circle, having revised plans prepared by Rubush & Hunter, archts., Amer. Central Life Bldg., 12 story and basement, 75 x 202 ft., brick and steel, Monument Circle. $1,000,000. Noted Aug. 16.

Ind., South Bend—Hospital—Epworth Hospital, 123 West Navarre St., having revised plans prepared by R. E. Schmidt, archt., 104 South Michigan Ave., Chicago, 5 story and basement, rein.-con. and brick, West Navarre St. $350,000. Noted Oct. 12.

Ind., South Bend—School—St. Josephs Catholic Church having plans prepared by Freyermuth & Maurer, archts., Farmers Trust Bldg., 2 story and basement, 142 x 147 ft., brick, Calvert St. $150,000. Noted Nov. 2.

Ind., South Bend—Store—Poledore Bros., 116 North Michigan St., plans 3 story and basement, 75 x 150 ft., brick, terra cotta front, Colfax St. $150,000. Architect not selected.

Ind., South Bend—Store—Robertson Bros., 127-33 South Michigan St., having plans prepared by W. M. Elwood, archt., South Bend, 8 story and basement, 100 x 150 ft., rein.-con. and brick, South Michigan St. $500,000.

Mich., Detroit—Clubhouse—Womens City Club, 141 Bagley Ave., having plans prepared by W. B. Stratton, archt., Union Trust Bldg., 6 and 9 story, 90 x 120 ft. rein.-con., brick and steel, plain foundation, Park and Elizabeth Sts. $500,000.

Mich., Detroit—Hotel—Development Corp., J. B. Book, Jr., pres., Book Bldg., having plans prepared by L. Kamper, archt., Kamper Bldg., 25 story, 100 x 150 ft. rein.-con., brick, steel and stone, Michigan Ave. and Washington Blvd.

Mich., Detroit—Hotel—E. M. Statler, Statler Hotel, Washington Blvd. and Park Ave., purchase site and having plans prepared for 18 story and basement 165 x 300 ft. rein.-con., brick, steel and stone, Woodward Ave. $9,000,000. Architects name withheld.

Mich., Detroit—Mercantile—Bedell Co., 19 West 34th St., New York City, having plans prepared 8 story and basement, 60 x 100 ft. rein.-con., brick and steel, Woodward Ave., here. $300,000. Architect's name withheld.

Mich., Detroit—Office—Episcopal Diocese of Michigan, 936 East Jefferson Ave., plans 10 story, 100 x 120 ft., Woodward Ave. Architect not selected.

Mich., Detroit—Theatre and Office—B. C. Whitney, Detroit Opera House Bldg., having plans prepared by Rapp & Rapp, archts., 190 North State St., Chicago, Ill., 8 or more stories, 94 x 165 ft. rein.-con., brick and steel, East High St. $2,000,000.

Mich., Detroit—Recreation—Recreation Dept., 504 Elmwood St., having plans prepared 1 story, 225x225 ft. and 82 x 100 ft. brick and steel recreation building incl. ice skating rink, Grand River Ave. and West Grand Blvd. $250,000. Dept. Bldgs. & Safety Eng., 555 Clinton St., engrs. and archts.

Mich., Okemos—Administration and Dormitory—Reformatory for Women, Capitol Bldg., Lansing, having plans prepared by L. W. Frye, state archt., Ann Arbor, 3 story, 44 x 82 ft. brick, plain foundation. $250,000. State may build by day labor.

Ill., Chicago—Apartment—H. Leidberg, archt., 154 West Randolph St., preparing plans 3 story, Sheridan Rd. near Grace St. $1,000,000. Owner's name withheld.

Ill., Chicago—Bank—Portage Park Natl. Bank having plans prepared by A. Schwarz, archt., 118 North La Salle St., 2 story, Irving Park Blvd. and Milwaukee Ave. $350,000.

Wis., Madison—Hotel—E. Clarenback, (Hotel Madison Co.) 201 Wisconsin St., Milwaukee, having revised plans prepared by C. Barkhausen, archt., 79 Wisconsin St., Milwaukee, 6 story and basement, 66 x 120 ft., brick and concrete, plain foundation, Fairchild and West Washington Sts., here. $400,000. Noted Dec. 14.

Wis., Milwaukee—Hotel—Hotel Wisconsin Co., 172 3rd St., having plans prepared by Holabird & Roche, archts., 104 South Michigan Ave., Chicago, 12 story and basement, 50 x 150 ft., brick, steel and concrete addition, plain and wood pile foundation.

Wis., Milwaukee—School—St. Michael Congregation, c/o S. Bernard, 469 24th St., had plans prepared by Brust & Philipp, archts., 405 Bway., 2 story and basement, 60 x 150 ft., brick, tile and concrete, plain foundation, 24th St. $150,000.

Wis., Oshkosh—Store—Henderson-Hoyt Co., 85 Main St., had plans prepared by Auler & Jensen, archts., F. R. A. Bldg., 4 story and basement, L shaped, 70 x 113

Buildings (Continued)

ft. and 20 x 100 ft., brick, steel and concrete, plain foundation, Main St. and Washington Blvd. $300,000.

Wis., Wauwatosa — Grade School — Bd. Educ. plans 2 story and basement, brick and tile, Greenfield Ave. $150,000. Architect not selected.

Ia., Ames—High School—Plans election to vote on $200,000 bonds for high school. Architect not selected.

Ia., Cedar Rapids — Clubhouse — Cedar Rapids County Club, c/o M. V. Bolton, chn., 417 Cedar Rapids Savings Bank Bldg., plans 3 story and basement, brick and tile. $150,000.

Ia., Des Moines—Hospital—Des Moines General Hospital, East 12th and Des Moines Sts., having plans prepared by Berlin, Swern & Randall, archts., 19 South La Salle St., Chicago, first unit, rein.-con., brick and stone, plain foundation. $350,000.

Ia., Fairfield—School—Bd. Educ. having plans prepared by M. Geise, archt., 800½ Maine St., Quincy, Ill., for high school addition and grade school, here. $150,000. Noted Dec. 14.

Ia., Sioux City—School—Bd. Educ. plans 3 story and basement, rein.-con., brick, tile and stone, in Morningside Addition. $300,000. Architect not selected.

Kan., Kansas City—School—Bd. Educ. takes bids about Feb. 9, for Major Hudson School, 2 story and basement, 74 x 76 ft., rein.-con., brick and stone. $180,000. Rose & Peterson, 434 Brotherhood Bldg., Kansas City, archts. Noted Oct. 26.

Kan., Wichita—Jail—Sedgwick Co. takes bids in February, 3 story, 40 ft. high, 45 x 107 ft., rein.-con., pressed brick and steel, plain foundation. $175,000. W. N. Bowman, Central Savings Bank Bldg., Denver, Colo., archt.

Neb., Omaha—Arts and Science—Creighton University, 25th and California Sts., raising funds for 4 story and basement, rein.-con., brick and stone, 25th and California Sts. $300,000. J. Latenser & Sons, 732 Peters Trust Bldg., archts.

Neb., Omaha — Chemistry — Creighton University, 25th and California Sts., raising funds and having plans prepared by J. Latenser & Sons, archts., 732 Peters Trust Bldg., 4 story and basement, rein.-con., brick and stone, 25th and California Sts. $250,000.

S. D., Kimball—School—Bd. Educ. having plans prepared by King & Dixon, archts., Mitchell, 2 story and basement, 132 x 134 ft. rein.-con., brick, tile and stone. $150,000.

S. D., Vermillion—Lodge—Masonic Order, c/o Hugill & Blatherwick, archts., Boyce-Greeley Bldg., Sioux Falls, having plans prepared 4 story and basement, 80 x 125 ft. rein.-con., brick, tile and stone. $175,000.

N. D., Grand Forks—School—Bd. Educ. plans 3 story and basement, rein.-con., brick, stone and tile. $300,000. F. M. Harbach, secy. Architect not announced.

Wyo., Laramie—Gymnasium—Bd. Trustees State University, takes bids in April or May, 1 story, basement and gallery, 110 x 180 ft., rein.-con., brick and steel, rock foundation, on University campus, here. $150,000. W. Dubois, Hynds Bldg., Cheyenne, archt.

Mo., Kansas City — High School — Bd. Educ. having preliminary plans prepared by C. A. Smith, archt., 612 Finance Bldg., new high school, 48th and Pasceo Sts. $1,000,000.

Mo., Kirksville—High School—Defeated $150,000 bonds for junior high school. Noted Nov. 9.

Mo., St. Louis—Store and Apartment—T. P. Carr, Arcade Bldg., soon takes bids 2 story, 125 x 200 ft., brick, plain foundation, Dale Ave. $150,000. T. P. Barnett, Arcade Bldg., archt.

Mo., University City — Apartment — Egyptian Court Apartment Building Co., Commercial Bldg., Clayton, had plans prepared by J. W. Leigh, archt., Ry. Exch. Bldg., St. Louis, and soon takes bids 6 story, 100 x 159 ft., concrete and brick, Delmar Blvd., here. $500,000.

Mo., Vandalia—High School—Voted $50,000 bonds and soon takes bids modern high school.

Tex., Dallas — Dormitories — Buckners Orphans Home, making plans rebuilding dormitories recently destroyed by fire, four 2 story and two 3 story, brick and rein.-con., plain foundations. $500,000. Architect not announced.

Tex., Electra—High School—Plans high school. $150,000. Architect not selected.

Tex., Ft. Worth—Hospital—Ft. Worth Baptist Hospital, Pennsylvania Ave., having plans prepared by Clarkson & Gaines, archts., 1st Natl. Bank Bldg., 2 story, brick addition. $250,000.

Tex., Galveston — Bank and Office — Texas Bank & Trust Co., c/o I. H. Kempner, pres., plans 11 story, 75 x 150 ft., Market and 22nd Sts. $1,000,000. Architect not selected.

Ariz., Phoenix—Office—G. H. N. Luhrs, Commercial Hotel, soon receives bids 11 story, granite, terra cotta, tapestry brick and rein.-con., Jefferson St. and Central Ave. $500,000-$750,000. Trost & Trost, Two Republics Bldg., El Paso, Tex., archts.

Wash., Sedro Woolley—School—Stephen, Stephen & Brust, archts., New York Bldg., Seattle, preparing plans and take bids in about 30 days, 2 story, 180 x 260 ft., brick, here, for Union High School Dist. 4. $155,000.

Wash., Spokane — Hospital — Lutheran Hospital Assn. having plans prepared by Whitehouse & Price, archts., Hutton Bldg., 4 story, rein.-con. and brick, plain foundation, 4th and Spruce Sts. $175,000.

Ore., Portland — High School — School Dist. 1, having plans prepared by Houghtaling & Dougan, archts., Elks Bldg., and lets contract about March 1, Washington High School, 4 story, 160 x 175 ft., rein.-con., brick and terra cotta. $300,000-$350,000.

Ore., Portland—Office—Co.-operative Office Building Corp., M. B. McClure, pres. and mgr., 664 East 52nd St., having plans prepared by W. Bruce, archt., Portland (street address not available) 12 story, 100 x 100 ft., rein.-con., marble, tile, granite, brick and terra cotta, Bway and Yamhill Ave. $900,000.

Ore., Portland—Schools—School Dist. 1 plans to expend $2,000,000 for schools during 1923.

Ore., Portland—Store—L. Holzman, 40 3rd St., having plans prepared by Clausen & Clausen, archts., Macleay Bldg., 6 story, 50 x 100 ft., rein.-con., concrete footings.

Ore., Salem—Schools—Bd. Educ. plans 2 wing additions to high school, and new central grade school. $300,000. Architect not selected.

Calif., Bakersfield — Hotel — Colonial Picayune Hotel Co., c/o J. M. Saffell, archt., 924 19th St., having preliminary plans prepared 5 story, rein.-con. $200,000.

Calif., Los Angeles—Church—Highland Park Presbyterian Church having plans prepared by J. C. Austin, archt., Baker-Detwiler Bldg., brick, Highland Park. $175,000.

Calif., Los Angeles — Office — See "Industrial Works."

Calif., Oakland—Hospital—Alameda Co. plans election soon to vote on $1,500,000 bonds to construct new units for hospital.

Calif., Oakland — School — California School of Arts and Crafts, Inc., 2119 Allston Way, Berkeley, had plans prepared first unit, 2 story, frame and stucco, Bway, and Clifton St., here. Total $500,000. F. H. Meyer, 2119 Allston Way., Berkeley, designer.

Calif., Pomona—Bank and Office—First Natl. Bank of Pomona had plans prepared by Curlett & Beelman, archts., Union Bank Bldg., Los Angeles, 5 story and basement, fireproof. $200,000.

Calif., Sacramento — School — Roman Catholic Archbishop, 1100 Franklin St., San Francisco, having plans prepared by R. A. Herold, archt., Forum Bldg., 3 story, rein.-con., 25th and K Sts. $150,000.

Calif., San Francisco — Club House — Olympic Club, Post St. near Mason St., receiving competitive plans for clubhouse, Lakeside Golf Links. $150,000.

Calif., San Francisco—Store and Hotel—E. Tropp and W. C. Crittenden, 129 Sutter St., having plans prepared by MacDonald and Couchot, archts., 345 Pine St., 16 story and basement, 100 x 170 x 229 ft., fireproof, Market, Hyde and Fulton Sts. $2,000,000.

Calif., San Jose — Office — Commercial Building Inc., c/o Binder & Curtis, archts., 255½ South 1st St., having plans prepared 8 story, fireproof, North 1st St. $400,000.

Que., Oka—Seminary and Presbytery—Trappist Fathers having plans prepared and takes bids before Feb. 1. $300,000. Private plans.

Ont., Cornwall—School—Voted $150,000 bonds for concrete, brick and steel addition to school, for Bd. Educ. J. C. Harkness, town clk. Architect not selected.

Ont., Hamilton—Hospital—Voted $150,000 bonds for concrete, brick and steel addition to Hamilton General Hospital. Architect not selected.

Ont., London — Collegiate — Bd. Educ. having plans prepared by L. E. Carrothers, archt., c/o Bd. Educ., 2 story, brick and stone, South London. $150,000.

Ont., Toronto—Store—T. Eaton Co. Ltd., Yonge and Queen Sts., having plans prepared by Sproatt & Rolph, archts., 36 North St., 8 story and basement, 120 x 200 ft. rein.-con., brick and steel addition, Yonge St. $500,000.

Ont., Toronto—School—Bd. Educ. having plans prepared by C. Dyson, archt., 155 College St., for Runnymede School, 2 story and basement, 10 room, concrete, brick and steel. $175,000.

Ont., Toronto—School—Bd. Educ. having plans prepared by C. Dyson, archt., 155 College St., 2 story and basement, 10 room addition to Earl Haig School, concrete, brick and steel. $175,000.

Ont., Toronto—Schools—Bd. Educ., 155 College St., having plans prepared by C. Dyson, archt., 155 College St., 2 story and basement, 8 room, brick and tile, in Silverthorn Dist., $150,000; also 2 story and basement, 10 room concrete, brick and steel, North Danforth Dist., $175,000.

Ont., Waterloo—School—Separate School Bd. having plans prepared by J. M. Cowan, archt., 107 Vincent St., Toronto, 2 story and basement, 8 room, concrete, brick and steel addition. $150,000.

BIDS DESIRED

Mass., Boston — Health — Jan. 24, by Coolidge & Shattuck, archts., 122 Ames Bldg., 4 story, about 75 x 110 ft., Battery St., concrete and brick, for City (George Robert White Fund.) $150,000.

Mass., Boston—High School—Jan. 19, by Schoolhouse Comrs., City Hall, high school, concrete and brick, Dunbar Ave. $1,000,000. McLaughlin & Burr, 88 Tremont St., archts. Noted Nov. 23.

N. Y., Brooklyn—Apartments—Ft. Hamilton Land Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., New York, two 4 story, 100 x 100 ft., brick, steel and stone, plain foundations, 4th Ave. and 72nd St., here. $150,000 each. Work will be done by separate contracts under supervision of architects.

N. Y., New York—Apartment—Clermont Iron Wks. Co., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 6 story, brick, steel and stone, Grand Concourse. $250,000. Work will be done by separate contracts under supervision of architects.

N. Y., New York—Apartment—Lousons Constr. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., brick, steel and stone, plain foundation, Grand Concourse. $1,000,000. Work will be done by separate contracts under supervision of architects.

N. Y., New York—Aparment—R. Rothbart c/o J. M. Felson, archt. and engr., 1133 Bway., 5 story, brick, steel and stone, plain foundation, Grand Concourse. $175,000. Work will be done by separate contracts under supervision of architect.

N. Y., Perry—School—Feb. 2, by Bd. Educ. Dist. 6, Towns of Perry and Castile, Perry, at office of T. H. Donnelly, secy., High School Bldg., Leicester St., altering and 2 story, 146 x 150 ft., brick addition. Gordon & Kaelber, 125 Sibley Bldg., Rochester, archts.; adv. this issue.

N. J., Trenton—High School—Feb. 5, by Committee on Buildings and Grounds of Bd. Educ. in meeting room of Bd. Administration, 9 South Stockton St., new junior high school. E. Sibley, Edgewood Lane and Bluff Rd., Palisade, archt.; adv. this issue.

N. J., Trenton Junction—School—Jan. 31, by A. H. Moses, archt., 415 Market St., Camden, group of 1 story buildings and transformer house, brick, for State School for Deaf, here. $300,000. Guilbert & Betelle, 546 Broad St., Newark, engrs.

Pa., Jenkinstown—School—Jan. 30, by Heacock & Hoakenson, archts., Bailey Bldg., Phila., 2 story and basement, 60 x 188 ft. with 35 x 64 ft. wing, brick, steel and stone plain foundation, for School Dist. $250,000.

Pa., Oil City—High School—April 1, by Bd. Educ., junior high school, brick and steel, Mylan, Harriot and Washington Aves. $500,000. E. E. Bailey, Oil City, archt.

Pa., Phila.—Church and Rectory—G. I. Lovatt, archt., 416 Walnut St., taking bids 1 story and basement, stone church and 3 story and basement, brick and stone rectory, plain foundations, 21st and Snyder Aves., for St. Edmunds Roman Catholic Church, 23rd and McKean Sts. $200,000.

Pa., Phila.—Loft—Hoffman-Henon Co., archts., Finance Bldg., taking bids 12 story

Buildings (Continued)

and basement, 90 x 188 ft., rein.-con., brick and steel, caisson foundation, 21st and Market Sts. $2,000,000. Owner's name withheld.

Pa., Red Lion—Business—March 1, by Zarfoss & Burg, 4 story and basement, 80 x 120 ft. brick, Main St. $160,000.

Md., Baltimore—Club—Jan. 30, by C. N. and N. Friz, archts., Lexington Bldg., 6 story, 68 x 110 ft., brick and terra cotta, Saratoga and St. Paul Sts., for City Club, Caswell Hotel. $650,000. Noted Dec. 28.

D. C., Wash.—School—Jan. 29, by Dist. Comrs., 509 Dist. Bldg., constructing Smothers School; adv. this issue.

La., New Orleans—Infirmary—Feb. 1, by E. Weil, archt., Whitney Central Bldg., 5 story, 50 x 296 ft. rein.-con. and tile, new clinic, maternity and ward buildings for Touro Infirmary, Prytania and Louisiana Aves. $750,000.

O., Vanlue—School—Bd. Educ. taking bids 2 story, 98 x 138 ft., brick, steel and concrete. $200,000. J. C. Treece, clk. T. D. McLaughlin, Savings Bldg., Lima, archt.

Ind., Evansville—School—Jan. 27, by St. Boniface Church, 2 story and basement, 72 x 151 ft., brick, Wabash Ave. $150,000. Clifford Shopbell & Co., Furniture Bldg., archts. Noted Jan. 4.

Mich., Albion—Hospital—Feb. 12, by J. W. Sheldon Memorial Hospital, 316 East Porter St., 4 story, 90 x 100 ft., brick, plain foundation. $150,000. A. Wood, 3513 Woodward Ave., Detroit archt. Noted Dec. 28.

Mich., Coldwater—High School—Jan. 25, by R. Leroy, archt., Pratt Bldg., Kalamazoo, brick superstructure for high school for Bd. Educ. $150,000. Noted Oct. 26.

Mich., Kalamazoo — High School — Jan. 22, by R. A. Leroy, archt., Pratt Bldg., 4 story, 114 x 173 x 173 ft. rein.-con. and brick, foundation in Westridge Ave., for Bd. Educ. $400,000.

Wis., De Forest — High School — Bd. Educ. taking bids 2 story, 81 x 114 ft., rein.-con. and brick, plain foundation. $150,000. A. E. Tenjen, clk. E. Tough, Conklin Bldg., Madison, archt.

Wis., Milwaukee—Apartment—Rosman & Wierdsma, archts., 424 Jefferson St., taking bids 3 story and basement, 42 x 216 ft., brick and concrete; plain foundation, Grand Ave. $150,000. Owner's name withheld.

Wis., Milwaukee—School, etc.—Feb. 1, by School Bd., 3 story and basement, 68 x 80 ft. addition to school, and 28 x 40 ft. boiler house, brick, tile and concrete, plain foundation, 27th Ave. $150,000. Van Ryn & De Gelleke, 114 Grand Ave., archts.

Wis., Milwaukee—Theatre and Office—Jan. 23, by M. Tullgren & Sons Co., archts., 425 East Water St., 7 story and basement, 150 x 205 ft., brick and concrete, plain foundation, Grand Ave. and 6th St., for Grand & Sixth Bldg., Inc., 425 East Water St. $1,500,000. Noted Jan. 11.

Ia., Ames—Library—Jan. 30 by Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, 3 story and basement, 50 x 165 ft., with 2 wings, concrete, brick and Bedford stone, on Campus, here, for Iowa State College. $400,000. Noted Nov. 9.

Ia., Des Moines—Office and Stores—Jan. 22, by Silverberg & Lince, S and L Bldg., superstructure for 7 story and basement, 67 x 130 ft., rein.-con., brick, tile and stone, 5th and Walnut Sts., $400,000. Boyd & Moore, 1020 Grand Ave., archts. Noted Dec. 7.

Minn., Chisholm—Junior High School—Jan. 25, by N. Rich, chn. Bd. Educ., 2 and 3 story, 200 x 422 ft., rein.-con. and brick, $350,000. German & Jenssen, Exch. Bldg., Duluth, archts. and engrs.

Minn., Duluth—Home—March 15, by G. Robie, chn. of com. Knights of Columbus, No. 447, 224 West 1st St., 4 story and basement, 100 x 140 ft., rein.-con., brick and stone, 2nd Ave. W. and 2nd St. $200,000. Holstead & Sullivan, 407 Palladio Bldg., archts. Noted May 11.

Kan., Atchison—Gymnasium—E. Brielmaier & Sons Co., archts., 432 Bway., Milwaukee, taking bids and opens same about Jan. 25, 2 story, 100 x 190 ft., brick and concrete, plain foundation. $150,000.

Kan., Winfield—High School—Jan. 22, by School Bd., 4 story, 60 x 150 ft., brick and rein.-con., plain foundation. $200,000. J. M. Fuller, Winfield, archt. Noted Dec. 7.

Tex., San Antonio—Schools—Feb. 6, by Phelps & Dewees, archts., Gunter Bldg., three 2 story, and two 1 story, concrete, brick and tile elementary schools, $225,000; also 1 and 2 story, 90 x 110 ft., rein.-con. and brick, junior high schools, Clinton and Carleton Sts. $175,000, for Bd. Educ. W. E. Simpson & Co., Natl. Bank Commerce Bldg., engrs.

Colo., Denver — School, Hospital, etc. — March 1, by Regents of University of Colorado, constructing school of medicine, hospital building and nurses' home, complete incl. heating, plumbing and electrical work, 8th Ave. and Colorado Blvd. C. W. Mills, chn. building comn. Biscoe, Fischer & Fischer, 731 United States Natl. Bank Bldg., archts. Noted Sept. 7.

Calif., Alhambra—School—Jan. 25, by Trustees of Alhambra High School Dist., 2 story and basement, brick. $300,000. Hunt & Burns, Laughlin Bldg., Los Angeles, archt. Noted June 29.

Calif., Fresno—Office—R. F. Felchlin Co., archts., Bank of Italy Bldg., receiving bids 10 story, fireproof, J and Tuolumne Sts., for San Joaquin Light and Power Co., 1801 Tulare St. $600,000. Noted May 11.

Calif., Glendale — School — Jan. 25, by Trustees Glendale Union High School Dist., 2 story, administration, auditorium and classroom building, 2 story, rein.-con. science building. $500,000. J. C. Austin, Baker-Detwiler Bldg., Los Angeles, archt. Noted May 18.

Calif., San Francisco—Store and Office—A. F. Rousseau, French Bank Bldg., will build 4 story, rein.-con. and steel, Market St. near 7th St., and 4 story, rein.-con. and steel, Market St. near 8th St., by separate contracts. $165,000 each. D. C. Coleman, 110 Sutter St., archt.

Ont., Weston—Feb. 7, by Bd. Educ., 2 story and basement, 8 room, concrete, brick and steel. $150,000. S. B. Coon & Son, 4 St. Thomas St., Toronto, archts.

BIDS RECEIVED

Md., Baltimore — Engine Houses and Truck Houses—City opened bids Jan. 3, engine houses (a) 25, (b) 47, Washington Blvd. and 8th St., (c) 57, Harford Rd. and Fleetwood St., (d) 58, Pennington Ave. and Filbert St., (e) 59, Maryland and Indiana Aves., (f) engine house 56 and truck house 24, Bush and Carroll Sts., (g) engine house 55 and truck house 23, 28th St. between Oak and Maryland Aves., (h) engine and truck houses combined, (i) 5 engine houses, (j) 5 engine houses and 2 truck and engine houses (lump sum), from General Constr. Co., 226 Richmond St., (a) $44,409 (d) $44,309; R. B. Mason, 308 West Madison St., (a) $45,765 (b) $44,789 (c) $46,085 (d) $46,474 (e) $44,389 (f) $53,362 (g) $56,250 (h) $107,419 (i) $223,873 (j) $326,923; Price Constr. Co., Maryland Trust Bldg., (a) $47,000 (f) $57,340; P. C. Streett, 3407 Norwood Ave., (b) $48,000 (c) $45,160 (d) $46,290 (e) $44,000 (f) $57,660 (h) $115,827 (i) $229,250 (j) $344,600; Consolidated Eng. Co., Calvert Bldg., (b) $48,900 (c) $46,700 (e) $44,900 (i) $233,800 (j) $352,000; C. L. Stockhousen Co., Gay and Water Sts., (h) $119,480. Noted Dec. 28.

Md., Baltimore—School—Mayor and City Council, City Hall, opened bids 3 story, brick, Hawthorne Rd. and Clarendon Ave., from J. H. Miller, Inc., Eutaw and Franklin Sts. $637,700; R. B. Mason, 308 West Madison St., $654,892; Consolidated Eng. Co., Calvert Bldg., $655,373. Noted Dec. 28.

Tenn., Nashville — Capitol Annex and Soldiers Memorial—State c/o H. McAlister, chn. building commission, opened bid Jan. 10, from A. Krebs Constr. Co., Rhodes Bldg., Atlanta, Ga., $1,396,000. Archts. est, $1,400,000. Noted Dec. 7.

Calif., Sacramento — Market — L. H. Glide, c/o J. Morgan, archt., Merchants Exch. Bldg., San Francisco, opened bids steel work and foundation for 2 story and basement, 160 x 170 ft., 13th and J Sts., from K. E. Parker & Co., 519 California St., San Francisco, $97,600; Herndon & Finnegan, 1814 17th St., $100,486; W. Keating, Capitol Natl. Bank Bldg., $106,500. Noted Dec. 21.

Calif., Whittier—High School and Auditorium—Whittier High School Dist., opened bids (1) 2 story, brick high school (2) auditorium, brick, rein.-con. and tile, general contract from J. Simpson Co., 701 Antonio Ave., Los Angeles, (1) $107,890; Davies Constr. Co., I. W. Hellman Bldg., Los Angeles, (1) $107,900 (2) $198,500; Darrell Condley Co. Marsh-Strong Bldg., Los Angeles, (1) $108,850; Los Angeles Building & Contg. Co., Marsh-Strong Bldg., Los Angeles, (2) $200,600; B. D. Kronnick, 312 West 39th St., Los Angeles, (2) $205,000.

CONTRACTS AWARDED

Mass., Brookline (Boston P. O.)—Apartment—Marden & Orlando, 1505 Beacon St., will build 3 story, 75 x 150 ft., brick and steel, plain foundation, Beacon St., by day labor. $200,000. S. S. Eisenberg, 46 Cornhill, Boston, archt.

Mass., New Bedford—Bank and Office—New Bedford Safe Deposit & Trust Co., Acushnet Ave., 4 story, 60 x 100 ft. brick and concrete, plain foundation, Pleasant and William Sts., to G. Howard & Sons Co., 153 Main St., Brockton. Archts. est. $150,000.

R. I., Providence—School—Bd. Contract and Supply, 3 story and basement, 83 x 151 ft., brick and steel, plain foundation, Summit Ave., to Haley & Hart, Inc., 22 Westminster St., $217,000. Archts. est. $300,000. Noted Jan. 11.

N. Y., Binghamton—High School—Bd. Educ., general contract 2 story and basement, 157 x 178 ft., brick, to D. Kirkpatrick and F. Stento, Binghamton, $329,700; heating and ventilating work, to Johnson Heating Co., New York City (street address not available) $48,300. Noted Dec. 28.

N. Y., Brooklyn — Apartment — Holland Bros. Realty Co., c/o McCarthy & Keller, archts. and engrs., 159 Remsen St., 4 story, brick, steel and stone, plain foundation, President St., by day labor. $175,000.

N. Y., Brooklyn—Apartment—I. Resnikoff, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., New York, 4 story, brick, steel and stone, plain foundation, Sterling Pl., here, by day labor.

N. Y., New York—Apartment—Bricken Constr. & Impvt. Co., c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., brick, steel and stone, plain foundation, 342 West 86th St., by day labor.

N. Y., New York—Apartment—Cortlandt Realty & Constr. Co., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 5 story, 251 x 369 ft., brick, steel and stone, plain foundation, Grand Concourse, by day labor. $600,000.

N. Y., New York—Apartment—Estate of O. Goelet, c/o J. H. Duncan, archt. and engr., 347 5th Ave., 8 story, 84 x 151 ft., brick, steel and stone, plain foundation, 204 East 48th St., by day labor. $400,000.

N. Y., New York—Apartment—J. H. Goldblatt, 231 East 77th St., brick, steel and stone, plain foundation, 591 West End Ave., by day labor. $300,000. Sugarman, Hess & Berger, 16 East 43rd St., archts. and engrs.

N. Y., New York—Apartment—Handley Realty Corp., c/o C. B. Meyers, archt. and engr., 31 Union Sq., 6 story, 50 x 100 ft., brick, steel and stone, plain foundation, Boston Rd., by day labor. $150,000.

N. Y., New York—Apartment—C. Hansle, c/o Moore & Landseidel, archts. and engrs., 148th St. and 3rd Ave., 6 story, brick, steel and stone, plain foundation, Riverside Dr., by day labor. $250,000.

N. Y., New York—Apartment—S. and S. building Corp., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., 5 story, brick, steel and stone, plain foundation, Huntspoint Ave., by day labor. $150,000.

N. Y., New York—Apartment—Schroeder & Koppe, c/o Rouse & Goldstone, archts. and engrs., 512 5th Ave., 15 story, 82 x 110 ft., brick, steel and stone, plain foundation, 157 East 72nd St., by day labor. $850,000.

N. J., Lakewood — School — Bd. Educ., stone, brick and steel, plain foundation, to T. O'Halleran, 41 Central Ave., Newark. Archts. est. $250,000.

N. J., South Orange—School—Bd. Educ., brick, steel and stone, plain foundation, to F. and C. Haerter, West New York. Archts. est. $250,000. Noted Oct. 12.

N. J., West Orange—School—A. Wench, secy. Bd. Educ., 2 story, 40 x 114 ft., brick, steel and stone, plain foundation, Gregory Rd., to Equity Constr. Co., 25 West 43rd St., New York City. Archts. est. $200,000. Noted Oct. 26.

Pa., Allentown—Temple—R. G. Schmid & Co., archts., 154 West Randolph St., Chicago, 7 story, 160 x 225 ft. rein.-con. brick and steel, Linden St., to W. Gangewere Co., Allentown, $542,250, plumbing, gas and sewer work, to E. P. Saeger, Allentown, $32,600 for Masonic Temple Assn. Noted Nov. 16.

Pa., Butler—Hospital—Butler Memorial Hospital, brick, steel and stone hospital, also power house, Brady St., to W. M. Sutherland Bldg. & Constr. Co., Commerce Bldg., Erie, $414,827 and $74,763 respectively. Noted Dec. 7.

Pa., Phila.—Exchange—Bell Telephone Co., Parkway Bldg., 3 story and basement, 107 x 156 ft. brick and stone, plain foundation, Emerald and Sargent Sts., to Irwin & Leighton, 126 North 12th St., $300,000.

Pa., Phila. — **Museum** — University of Pennsylvania, 34th and Spruce Sts., 2 story brick and steel addition, 34th and Spruce

Buildings (Continued)

Sts., to F. M. Harris & Co., 1520 Parrish St., $300,000. Noted Dec.

Pa., Pittsburgh — Community — Kingsley Assn. Inc., 43 Fernando St., 2 story and basement, 50 x 100 ft., brick, incl. swimming pool and gymnasium, Larimer Ave., to D. T. Riffle, 1006 Forbes St. Archts. est. $150,000.

Pa., Scranton—Store—New Wall Paper Co., 122 North Washington Ave., 4 story addition, North Washington Ave., to United Fireproofing Co., 8 West 40th St., New York City.

Md., Baltimore — Apartment — Edgevale Apartments, c/o E. L. Palmer, Jr., archt., 513 North Charles St., 5 story, 180 x 320 ft., brick and steel, plain foundation, Beech Ave. and 40th St., L. L. Chambers, 36th and Roland Ave., $750,000.

Md., Baltimore—Apartment—J. P. and C. Brandau, Charles and 31st Sts., 6 story, 199 x 131 ft., rein.-con., brick and terra cotta, Charles and 31st Sts., to Consolidated Eng. Co., Calvert Bldg., $750,000.

D. C., Wash.—Showroom and Store—C. W. Semmes of Semmes Motor Co., 1132 Connecticut Ave., N. W., showroom and store at Dupont Circle, to C. H. Tompkins, 1614 Park Rd., N. W., $200,000.

D. C., Wash.—Bank—Hamilton Savings Bank, 7th and I Sts., N. W., bank building at Dupont Circle, to C. T. Tompkins, 1614 Park Rd., N. W. $200,000.

N. C., Asheville—Store—Letinskys Dept. Store, 4 story, brick, steel and stone, to W. M. Sutherland Bldg. and Constr. Co., Compton Bldg., St. Louis, Mo. Archts. est. $400,000. Noted Dec.

N. C., Winston-Salem—School—City constructing 2 grammar schools, hollow tile, to Southeastern Constr. Co., Trust Bldg., Charlotte, $151,200. Noted Nov. 9.

Fla., Jacksonville—Schools—Duval Co. School Bd., two 2 story, brick and steel, to O. P. Woodcock, 403 Main St., $696,192. Noted Nov. 30.

Fla., Orlando—Bank—Orlando Bank & Trust Co., brick, stone and steel, plain foundation, to A. Bentley & Sons Co., 201 Belmont Ave., Toledo, O. Archts. est. $250,000. Noted Oct. 26.

Ala., Albany—High School—Bd. Educ., 3 story, 80 x 300 ft., brick, plain foundation, to Batson-Cook, West Point, Ga., $135,388. Noted Dec. 7.

Tenn., Chattanooga — Office — Southern Rys. Co., Ingalls Bldg., Cincinnati, O., 3 story and basement, 70 x 182 ft., rein.-con. and brick, plain foundation, Market St., here, to McDevitt-Fleming Co., 1st Natl. Bank, $150,000.

O., Dayton—Church—Second Church of Christ Scientist, 2 story and basement, 74 x 175 ft., rein.-con. and stone, Grand and Belmont Sts., to Schenk & Williams, Mutual Home Bldg., $175,000. Archts est. $182,000. Contractor will sub-let work. Noted Aug. 10.

O., Zanesville—Hotel—O. J. Raile, pres. Zane Hotel Co., 7 story and basement, rein.-con., brick and stone, Main St., to Blanchard Building Co. and W. E. Becher, 928 Lindsey Bldg., $500,000.

Ind., Indianapolis—Apartment—H. H. Woodsmall, Fidelity Trust Bldg., 3 story and basement, 126 x 150 ft., rein.-con. and brick, North Meridian St., to L. Colvin, Bd. of Trade; percentage basis. Archts. est. $500,000. Noted Jan. 11.

Ind., Indianapolis — Physicians — E. G. Spink Co., Hume-Mansur Bldg., will build 9 story and basement, 67 x 130 ft., brick and stone, North Pennsylvania St., by day labor. $875,000. W. K. Eldridge, c/o owner, archt. Noted Jan. 11.

Mich., Grand Rapids — Office — Howe, Snow & Bertles, Grand Rapids Savings Bank Bldg., 5 story, 5 sides 100 ft. each, brick and steel addition, plain foundation, Fulton and Iowa Sts., to Owen, Ames & Kimball Co., Michigan Trust Bldg., $150,000.

Ill., Chicago—Apartment—I. Phillips, 4710 North Lawndale Ave., 3 story, 119 x 138 ft., rein.-con., brick and steel, 5416-26 Washington St., to J. Siger, 538 South Clark St. Archts. est. $200,000.

Wis., Milwaukee—Club—Amer. Luther Assn., 283 11th St., 3 story and basement, 50 x 120 ft., brick and concrete, plain foundation, 11th and State Sts., to Dahlman Constr. Co., 456 Bway. Archts. est. $175,000.

Wis., Kenosha—Courthouse, etc.—Kenosha Co. general contract 3 story and basement, 126 x 226 ft. courthouse and 2 story and basement, 67 x 138 ft., administration and jail building, concrete, brick and stone, to Hutter Constr. Co., 128 Western Ave., Fond du Lac, $695,400; heating, to Thomas Heating Co., 708 9th Ave., Racine, $57,077; plumbing, to E. J. Sullivan, 362 Park Ave., Kenosha, $55,000. Noted Jan. 4.

Minn., Aitkin—Court House—Aitkin Co., 3 story and basement, rein.-con., brick and tile, general contract to A. B. Drygas, Aitkin, $154,780. Noted Jan. 11.

Minn., St. Paul—Apartment—Standard Home Building Co., 727 Andrus Bldg., Minneapolis, will build two 3 story and basement, 70 x 117 ft., concrete, brick and stone, Marshall Ave. and Mississippi River Dr., by day labor. Taking bids on materials. $250,000. Linhoff & Zelzer, 906 Guardian Life Bldg., archts.

Mont., Butte—Hotel—New Finlen Hotel Co., Finlen Hotel, general contract 9 story and basement, rein.-con., brick, tile and stone, to A. Broadland, Missoula, $265,378. Noted Dec. 21.

Mo., Kansas City — School — Bd. Educ. general contract Hale H. Cook School, 2 story and basement, 194 x 250 ft., rein.-con., brick and steel, 73rd and Jefferson Sts., to Collins Bros., 1600 Grand St., $202,900.

Mo., St. Louis — Office — Missouri State Life Insurance Co., 1501 Locust Blvd., 5 and 10 story, 100 x 115 ft., rein.-con., brick and steel addition, to McKelvey Constr. Co., 911 Title Guaranty Bldg. Archts. est. $750,000. Noted Dec. 7.

Ariz., Mesa—Temple—Church of Jesus Christ of Latter Day Saints, J. W. Lesuer, pres., Maricopa Stake, will build 3 story, 126 x 186 ft., 52.5 ft. high, rein.-con., at East 2nd Ave., by day labor. $320,000. Young & Hansen, McKornick Bldg., Salt Lake City, Utah, archts. Noted Feb. 2.

Ore., Portland—First Natl. Bank, will build 4 story, 50 x 100 ft., rein.-con., marble and tile, concrete and solid rock footings, 6th and Alder Sts. by day labor. $350,000. Coolidge & Shattuck, 122 Ams. Bldg., Boston, Mass., archts.

Calif., Lodi—High School—Lodi Union High School Dist., group of buildings, brick, steel and concrete, to C. Mabrey Co., Ochsner Bldg., Sacramento, $216,324.

Calif., Los Angeles—Apartment—E. W. Richardson, 3 story and basement, brick, West Berendo St., to Richardson Eng. & Bldg. Co., Story Bldg., $150,000.

Calif., Los Angeles — Apartment and Bank—A. Taylor, 2 story, apartment, bank and store building, brick, 8th Ave. and Washington St., to A. Hesse, Hollingsworth Bldg., $175,000.

Calif., Los Angeles—Office—A. C. Blumenthal, F. Kahn, et al., Loew State Bldg., two 12 story, with connecting arcade, Mercantile Pl. from Bway. to Spring St., to MacDonald & Kahn, Loew State Bldg., Los Angeles, and 136 Montgomery St., San Francisco, $1,500,000. Noted Dec. 21.

Calif., San Francisco—Apartment—J. E. Levin, 1507 Folsom St., San Francisco, and S. Levin, New York City, 9 story and basement, rein.-con., Jackson and Laguna Sts., general contract to K. E. Parker Co., Clunie Bldg., $115,000; plastering, to A. Knowles, Call Bldg., $25,570. Noted Sept. 21.

BRIDGE—BURNHAM, ILL.

Following are lowest three bids opened Dec. 18, by Cook Co. Highway Dept., Chicago, for constructing superstructure of bascule bridge over Little Calumet River, here. (A) Strobel Steel Constr. Co., 53 West Jackson Blvd., Chicago, (Rall type); (B) Ketler-Elliott Constr. Co., 155 North Clark St., Chicago (Chicago type); (C) Morava Constr. Co., 122 South Michigan Ave., Chicago, (Rall type). The unit bids were as follows:

Item	A Quantities		A Unit Prices	B Quantities	B Unit Prices	C Quantities	C Unit Prices
Structural steel	1,155,000	lb.	$0.0703	1,270,000	$0.077	1,183,000	$0.773
Steel in trunnions	21,000	lb.	0.1416			22,400	.214
Cast steel track plates, etc.	53,100	lb.	0.161			57,300	.188
Machinery steel	160,000	lb.	0.238	194,000	.216	167,000	.24
Ordinary steel castings	8,000	lb.	0.1676			7,800	.22
Iron castings	1,000	lb.	0.15			800	.20
Bronze and babbitt	5,000	lb.	0.60			850	.63
Reinforcing steel	21,000	lb.,	.07			21,000	.07
Counterweight metal	1,000	lb.	0.06			1,000	.07
Concrete in counterweight	375	cu.yd	16.00	400	20.10	400	21.00
Lumber	44,000	ft.b.m.	148.00	50	120.00	44,000	135.00
Class X concrete	80	cu.yd.	17.50	68	28.00	80	18.50
Class B concrete	60	cu.yd.	15.50			60	18.50
Creosoted block pavement	450	cu.yd.	4.00	500	4.40	450	4.10
Design and royalties	(lump sum)		20,000.00		20,300.00		20,000.00
Extended totals			$173,462		$178,138		$192,911

BRIDGES—MISSOURI

Bids were opened by State Highway Dept., Jefferson City, for constructing fifteen steel truss spans and seven steel girder spans over Missouri River at Lexington, Federal Aid Project 223, Lafayette and Ray Counties, from (A) Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, Kan.; (B) Mt. Vernon Bridge Co., Mt. Vernon, O.; (C) McClintic-Marshall Co., Oliver Bldg., Pittsburgh; (D) Kansas City Bridge Co., Kansas City, Mo. The unit bids were as follows:

	A	B	C	D
1,350,000 lb. steel cylinders	$0.075			$0.10
4,100 cu.yd. concrete in cylinders	41.00			45.00
400,000 lb. reinforcing bars	.055	.045		.06
3,500 cu.yd. concrete in pier shafts	25.50			20.00
400 cu.yd. concrete, pedestals and abutments	28.50			30.00
1,000 cu.yd. excavation	4.35			3.00
80 cu.yd. rock excavation	7.50			4.00
4,680,000 lb. metal in place-thru spans		.068	.0807	.065
1,900,000 lb. metal in place—deck spans and trestles		.615	.0833	
6,600 lin.ft. handrail			3.80	5.00
1,820 cu.yd. concrete floor slab		31.50		24.50
24,000 cu.yd. earth embankment	.75			.45
1,700 cu.yd. stone riprap	5.00			7.00
2,000 sq.yd. macadam pavement	3.00			3.00
1,600 lin.ft. wood rail on embankment	.75			.80
7,000 ft. b.m. timber in place	95.00			102.00
4,300 lin.ft. timber piling	.75			1.00
12,000 sq.ft. mattress	.22			.20
1,000 lb. wire rope	.15			.08
1,000 lb. c.i. anchors	.25			.10
Cleaning up (lump sum)	1,500.00			1,000.00
Extended totals	$439,080	$526,020	$561,026	$972,664

Federal Government Work

PROPOSED WORK

R. I., Providence—Dredging—U. S. Engineer, Providence, plans maintenance dredging in Connecticut River.

N. Y., New York—Dredging—U. S. Engineer, 2nd Dist., plans dredging in Shrewsbury River.

Pa., Phila.—Dredging—U. S. Engineer, 815 Witherspoon Bldg., plans dredging in Delaware River and Philadelphia Harbor.

D. C., Wash.—Walks—U. S. Engineer, Wash., D. C., plans concrete walks in Meridian Hill Park.

Va., Norfolk—Dredging—U. S. Engineer, Custom House, plans dredging in the Southern Branch of Elizabeth River. Noted May 4 under "Virginia."

Miss., Gulfport—Refrigerating Equipment—Spec. 4780—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install refrigerating equipment, here.

Miss., Gulfport — Stack — Spec. 4781 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans stack, here.

Tex., Galveston—Dredging—U. S. Engineer, Galveston, plans dredging Sabine-Neches Waterway.

P. R., San Juan—Repairs—Spec. 4785—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to radio towers, here.

Federal Government (Continued)

BIDS DESIRED

N. Y., Ft. Tilden—Plotting Room, etc.—Feb. 10, by U. S. Engineer, 608 Army Bldg., New York, plotting and switchboard rooms, here; adv. this issue. Noted Dec. 28.

O., Cincinnati—Steel, etc—Fed. 12, at office U. S. Engineer, for structural steel, forgings, etc. for Dams 36 and 38, Ohio River; adv. this issue.

Mich., Battle Creek—Hospital—Feb. 16 by Director U. S. Veterans Bureau, at office Quartermaster-General, 2306 Munitions Bldg., Wash., D. C., for Neuro-Psychiatric Hospital at Camp Custer, here; adv. this issue. Noted Dec. 28.

CONTRACTS AWARDED

N. Y., Buffalo—Superstructure—U. S. Engineer, Federal Bldg., stone and concrete superstructure on breakwater in harbor, here, to Amer. Constr. Co., Marion Bldg., Cleveland, O., $447,609. This corrects report in Nov. 16 issue.

N. Y., Tupper Lake — Hospital — Spec. 4718—Bureau Yards & Docks, Navy Dept., Wash., D. C., for U. S. Veterans Hospital, here, to W. H. Sutherland Constr. Co., 408 Compton Bldg., St. Louis, Mo., $1,139,269. Award made on these items (5) (6a) (6c) (6d) (6e) (6f) unit prices (16a) (16b) (16c) (16d) (16e) (16f). Noted Jan. 11.

W. Va., Huntington—Power-House—U. S. Engineer, Huntington, power-house at Dam 30, Ohio River, to H. Campbell & Sons, Huntington, $32,000. Noted Dec. 7.

N. C., Wilmington—Barge—U. S. Engineer, Wilmington, one 60 ft. steel barge, to Wilmington Iron Works, Wilmington, $5,950. Noted Nov. 30.

Wash., Puget Sound—Pier Extension—Spec. 4707—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to Pier 4, here, to Henry & McFee, 208 Northern Life Bldg., Seattle, $395,173. Noted Jan. 4.

Miscellaneous

PROPOSED WORK

Motordrome — Agawam, Mass. — H. J. Perkins, Dwight St., Springfield, plans hard race track and grandstand to seat 10,000, Riverside Park, here. $100,000. Smith & Annable, 145 State St., Springfield, archts.

Snow Plows—Canandaigua, N. Y.—Bd. Supervs. Ontario Co. soon take bids 2 snow plows. $2,500. F. Russell, supervisor.

Transmission Line—Lackawanna (Buffalo, P. O.) N. Y.—See "Industrial Works."

Power Development—Watertown, N. Y.—Northern New York Utilities Inc., 58 Pub. Sq., plans development of South Edwards power site, incl. hydro-electric equipment, penstock, dam and power house. $500,000. Address W. P. Creager, Watertown, ch. engr.

Ornamental Lighting System—Erie, Pa.—Plans ornamental lighting system on Parade and Peach Sts., also extension to system on State St. $25,000. A. Crane, city electrician.

Shelters — Phila. Pa. — See "Streets & Roads."

Separating Grades — Detroit, Mich. — Grand Trunk Ry., Brush St. Terminal, signed agreement accepting city's plan for separating grades, incl. depression of tracks on 1¼ mi. Dequindre St. from Jefferson Ave. to Erskine St. Bridges to be built over tracks at street crossing with width to provide for street widenings in future. $4,000,000. W. G. Robb, vice pres., in charge.

Street Sweeper—Lodi, Calif.—City Trustees plan to purchase street sweeper. $5,000. L. F. Barzellotti, city engr.

Train Sheds—San Francisco, Calif.—See "Industrial works."

Park—Santa Rosa, Calif.—Citizens subscribed $30,000 to purchase 30 acre site, to be improved for park purposes. L. Burbank, Santa Rosa, interested.

Electric Light System — Campbellville, Ont. — Voted $35,000 bonds for electric lighting and power distribution system. R. C. Menzies, clk. Noted Jan. 4.

Electric Light System—Wheatley, Ont.—Voted $35,000 for electric lighting and power distribution system. M. H. Chamberlain, clk. Noted Dec. 21.

Ferry Docks — Windsor, Ont. — Detroit Windsor Ferry Co., plans new docks, here. $500,000.

BIDS DESIRED

Bulkhead, etc.—Mineola, N. Y.—Jan. 29, by Bd. Supervs. Nassau Co., Court House, bulkhead and filling on Long Beach Rd. between Barnum Island Creek and Upland. Former bids rejected. W. F. Starks, co. engr.; adv. this issue. Noted Dec. 14.

Alterations—New York, N. Y.—Jan. 25, by Transit Comn., 49 Lafayette St., making alterations in Bway.-4th Ave. Rapid Transit R.R. structure at various locations to permit widening of streets, Agreement "CE."

Bulkhead Wall—New York, N. Y.—Jan. 22, by Comr. Docks & Ferries. Pier A, North River, concrete bulkhead wall along Harlem River driveway between 165th and 193rd Sts.

Gates Valves, etc.—New York, N. Y.—See "Waterworks."

Motor Trucks—Long Island City, N. Y.—Jan. 22, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., furnishing and delivering twenty-one 3 to 3½ ton motor trucks. Former bids rejected. Noted Dec. 21.

Timber Jetties, etc.—Rockaway Beach (Far Rockaway, P. O.) N. Y.—Jan. 25, by Dept. Parks, Municipal Bldg., New York, timber jetties and bulkheads on ocean side of Jacob Riis Park, here.

Asphalt Plant—Butler, Pa.—City taking bids stationary asphalt plant.

Lumber—Phila., Pa.—Jan. 20, by T. F. Armstrong, purch. agt., City Hall, furnishing 80,000 ft. yellow pine lumber, various sizes from 2 x 6 in. to 12 x 12 in. $5,000.

Road Machinery — Phila., Pa. — Good Roads Machinery Co., Inc., Commercial Trust Bldg., taking bids various kinds of road building machinery.

Lumber—New Orleans, La.—Jan. 25, by Bd. Port Comrs., Suite 200, New Court Bldg., 180,000 ft. untreated yellow pine.

Sand—New Orleans, La.—Feb. 1, by Bd. Port Comrs., Suite 200, New Court Bldg., 50,000 to 70,000 cu.yd. Lake sand on barges at site of Claiborne Ave. landing, on Navigation Canal.

Lumber, etc. — Ayr, Ia. — Jan. 23, by Auditor Ringgold Co., furnishing 8 cars bridge lumber and 1 car piling. H. H. Howle, Mt. Ayr, engr.

Steel, Lumber, etc.—Charles City, Ia.—Jan. 24, by Auditor Floyd Co., furnishing 100,000 lb. reinforcing steel, 150,000 ft. lumber, 6,000 ft. cypress or white oak piling, 2,000 ft. circular culvert pipe. G. H. Elliott, Charles City, engr.

Lumber, etc.—Harlan, Ia.—Feb. 5, by Auditor Shelby Co., furnishing 15,000 ft. fir lumber, 12,000 ft. piling and 3,140 ft. corrugated culvert metal. F. W. Sarvis, Harlan, engr.

Lumber, etc.—Iowa City, Ia.—Jan. 31, by Auditor Johnson Co., furnishing 286,214 ft. lumber and 1,720 ft. piling. A. F. Fischer, co. engr.

Lumber, etc.—Montezuma, Ia.—Jan. 23, by Auditor Poweshiek Co., furnishing 5 cars, fir bridge lumber, (standard sawed) and 2 cars piling.

Lumber, etc.—Toledo, Ia.—Jan. 23, by Auditor Tama Co., furnishing 9 cars lumber and 8,000 ft. corrugated culvert metal.

Lumber, etc.—Vinton, Ia.—Feb. 7, by Auditor Benton Co., furnishing 60,000 ft. lumber and 4,420 ft. corrugated culvert metal. M. A. Hall, Vinton, engr.

Lumber, etc.—Waverly, Ia.—Feb. 7 by Auditor Bremer Co., 125,000 ft. lumber, 50,000 lb. reinforcing steel, 5,400 ft. corrugated culvert metal.

Flushers—Mankato, Minn.—Jan. 30, by city, 1 motor flusher, combined power flusher and gravity sprinkler, 2 motor tank capacity 1,000 to 1,500 gal. F. W. Bates, clk.

Screening Plant—Mora, Minn.—Feb. 7, by A. V. Sander, aud. Kanabec Co., screening plant, elevator, bin and screen. R. G. Streetly, Mora, engr.

Transmission Line—Kanorado, Kan.—Jan. 23, to vote on $25,000 bond issue for transmission line. W. R. Rollings & Co., 521 Railway Exch. Bldg., Kansas City, Mo., engrs.

Turbine, Generator, etc.—Arizona—Feb. 5, by Salt River Valley Water Users Assn., Salt River Valley Water Users Bldg., Phoenix, one 10,000 hp. turbine to operate under 160 ft. effective head, at 300 r.p.m., one 7,500 kva. generator, 25 cycle, delivering 2,300 volts, for installation in power house at Roosevelt Dam. $130,000-$140,000. H. Lawson, supt. power.

Water Pipe and Fittings—Redwood City, Calif.—Feb. 5, by City Trustees, furnishing water pipe and fittings for year.

Rock Crusher—Port Arthur, Ont.—H. A. MacKibbin, clk. McIntyre Twp., 614 Whalen Bldg., taking bids portable rock crusher handling about 100 ton rock per day, with screen and bin, also tractor, 30 hp. capacity.

Road Plows—Scarboro, Ont.—Jan. 22, by C. E. Fraser, twp. engr., Bank of Commerce Bldg., Stop 19, Kingston Rd., Toronto, 2 road plows.

Coal and Ash Handling Plant and Equipment—Toronto, Ont.—Jan. 22, by Chairman Toronto Transportation Comn., 35 Yonge St., complete coal and ash handling plant for general repair shops, Bathurst Ave. and Davenport Rd., incl. 2 rein.-con. bins, track hopper, apron feeder, coal crusher, elevator conveyor, flight conveyor, ash elevator, etc. $50,000. H. H. Cousens, 35 Yonge St., mgr.

BIDS RECEIVED

Heating and Ventilating Apparatus, etc. —New York, N. Y.—J. E. Douglass, acting pres. school buildings of Bd. Educ., Flatbush Ave. extension and Concord St., Brooklyn, opened bids Jan. 11, installing heating, ventilating and temperature regulating apparatus, in (1) P. S. 69, (2) P. S. 80, East 120th St. (3) P. S. 139, West 140th St., from W. J. Olvaney, 100 Charles St., (1) $37,806 (2) $55,358 (3) $64,236; E. Rutzler Co., 404 East 49th St., (1) $29,486 (3) $71,745; Austin Eng. Co., 124 West 24th St., (1) $40,592; D. J. Rice, 405 Lexington Ave., (2) $57,624 (3) $69,433; Philip & Paul, (2) $61,967. Noted Jan. 4.

Foundation — Sacramento, Calif. — See "Buildings."

CONTRACTS AWARDED

Steam Rollers — New York, N. Y. — J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids Jan. 10, furnishing and delivering three tandem steam rollers, from Galion Steam Wks. Mfg. Co., 50 Church St., $8,804; Buffalo Steam Roller Co., 150 Nassau St., $10,440. Noted Jan. 4.

Wood Paving Blocks—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., furnishing and delivering (1) 500,000 wood paving blocks (2) 80,000 gal. gasoline (3) 6,000 cu.yd. binder stone (4) 500,000 gal. refined asphalt (5) 15,000 cu.yd. asphalt wearing sand, from Amer. Creosoting Co., 17 Battery Pl., (1) $22,495; Standard Oil Co. of New York, 26 Bway., (2) $17,480 (4) $30,650; Tidewater Oil Sales Corp., 11 Bway., (2) $18,400; Calvin Tompkins Co., 30 Church St., (3) $11,340; Warner Quinlan Co., 79 Wall St., (4) $28,400; Z. Mahoney, 557 46th St., Brooklyn, (5) $15,300; J. T. Cunningham, (5) $15,525; C. W. Crane, 17 Battery Pl., (5) $16,200. Noted Jan. 4.

Coal Handling Equipment—Phila., Pa.—F. H. Caven, dir. pub. wks., City Hall, coal storage and locomotive crane, to J. B. McHugh, Jr., 402 Markoe St., $15,663.

Pipe—Kansas City, Kan.—For 225 ton 12 in. Class C B and S C I pipe to Amer. Cast Iron Pipe Co., 716 Scarrett Bldg., Kansas City, Mo., $51.10 per ton.

Navigation, etc.—Orange, Tex.—Orange Co. voted $750,000 for navigation improvements on Sabine River. E. S. McCarver, co. judge. Noted Dec. 7.

Tanks—Hominy, Okla.—Sinclair Crude Oil Purchasing Co., Sinclair Bldg., Tulsa, and New York City, fifteen 80,000 barrel tanks, plate tonnage involves 4,500 ton, to Chicago Bridge & Iron Wks., 30 Church St., New York City.

Undergrade Crossing — Oklahoma City, Okla.—Oklahoma Co. and Atchison, Topeka & Santa Fe R. R., constructing new undergrade crossing on Britton Rd., to Green Constr. Co., 1st Natl. Bank Bldg., $55,000.

Rock Crushing Plant—Los Angeles, Calif.—Minarock Products Co., 836 Ducommon St., will construct 74 x 230 ft. rock crushing plant, frame and corrugated iron, by day labor. A. G. Bailey, Junior Orpheum Bldg., archt.

Electric Light System—Brockville, Ont.—Voted $57,645 bonds for improving electric lighting system. G. K. Dewey, clk.

Transmission Lines—Niagara Falls, Ont.—Stamford Twp. voted $38,000 bonds for hydro electric transmission lines. T. R. Stokes, clk.

Electric Power Line—South Woodslee, Ont.—Council plans to extend electric power line from here to Bell River. $40,000. A. Wilson, 190 University Ave., Toronto, engr.

Telephone Extensions—Toronto, Ont.—Bell Telephone Co., 76 Adelaide St. W., plans to extend telephone lines, etc. $100,000. F. Kennedy, mgr.